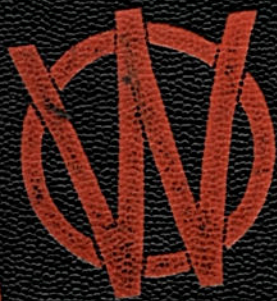


EQUIPMENT BOOK



WILLYS-OVERLAND

Before You Open Your Book!

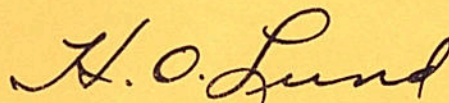
Willys-Overland Motors has achieved a unique position in the automotive industry. Not only does this Company produce utility passenger vehicles, but it is playing a strong part in the nation's industrial and agricultural economy. This is due in part to the adaptability of the Universal 'Jeep' to an increasing 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	1.187	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.		Cool- ing med.	Air		
TEST F and TEST G—100% MAXIMUM LOAD—												
ear	24.32	2148	4.25	2002	5.46	Not Recorded			195	73	28.950	
st	25.71	1220	7.90	2002	2.44	" "			190	70	28.950	
d	25.94	909	10.70	2003	2.02	" "			185	70	28.950	
th	25.50	775	12.34	2001	1.77	" "			176	48	28.800	
th	23.48	454	19.39	1990	0.89	" "			176	48	28.810	
th	*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
	Liquid Ballast	None	None
	Added Cast Iron	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
Front Wheel: (each)	Air Pressure	22 lb	20 lb
	Type and Weight	Pressed Steel	Pressed Steel
	Liquid Ballast	None	None
Front Tires:	Added Cast Iron	359 lb **	None
	No., Size and Ply	2 7.00-15 4 ply	2 7.00-15 4 ply
	Type of Tread	All Service	All Service
Height of Drawbar	Make	Goodyear	Goodyear
	Air Pressure	22 lb	20 lb
	Type and Weight	Pressed Steel	Pressed Steel
Static Weight: Rear End	Front 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 h.p. 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 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 Valves 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

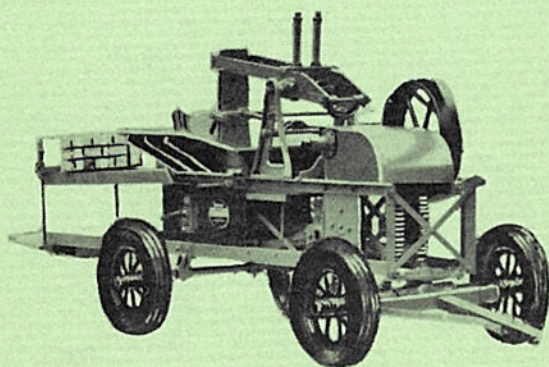


TURNER
Manufacturing Co.
Statesville, N. C., U. S. A.

★ *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

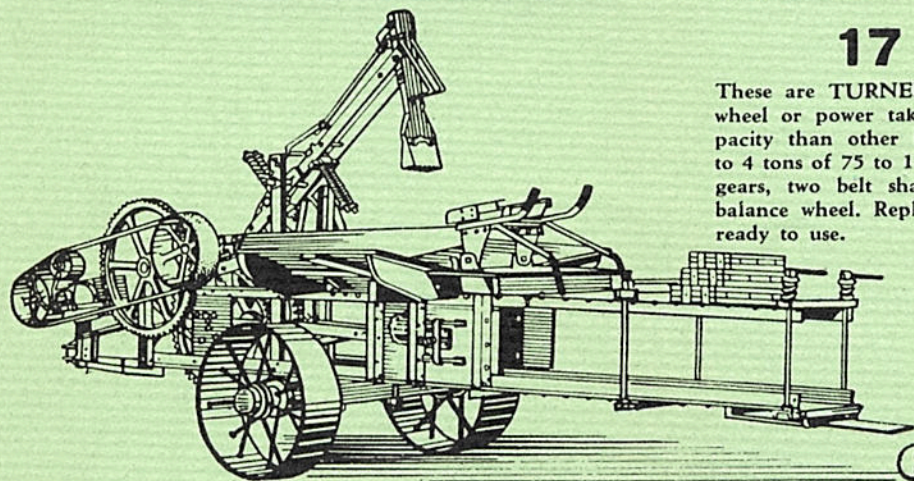
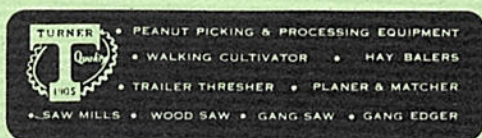
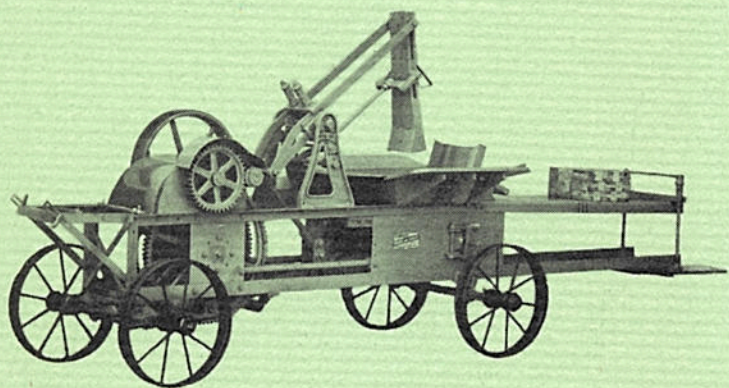
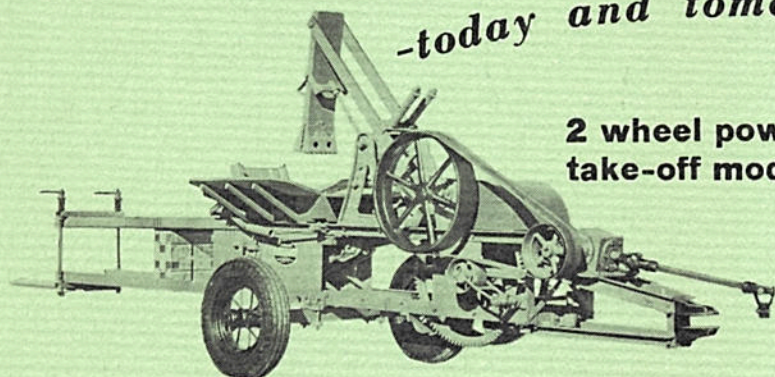
Turner Manufacturing Company
Statesville, N. C., U. S. A.

Page 2

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.

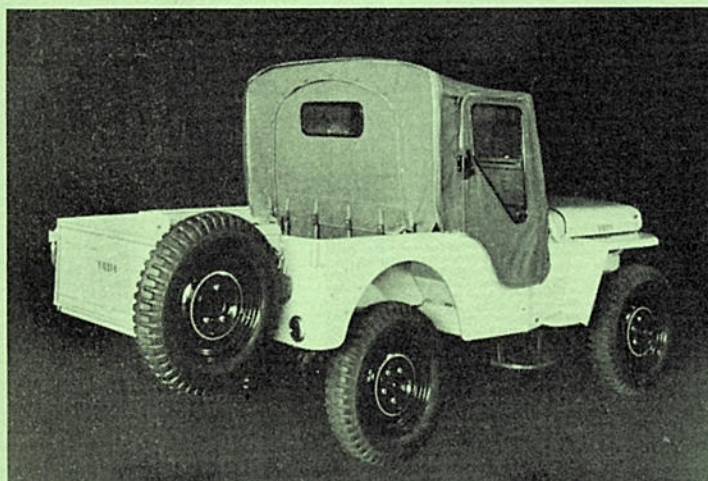
It can be installed in less than 10 minutes. The tailgate is removed and attached to the rear of the Extension. The Extension is then attached to the body of the Jeep using the tail gate hinges and two clamps that are part of the Extension. Two bolts tighten it to the Body and two support rods attached 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**

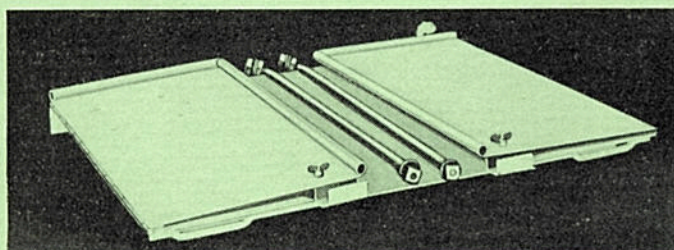
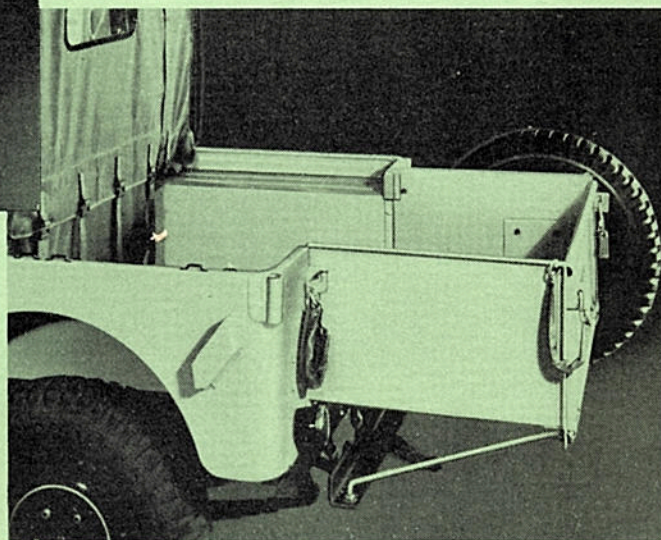


Protects Spare Tire

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

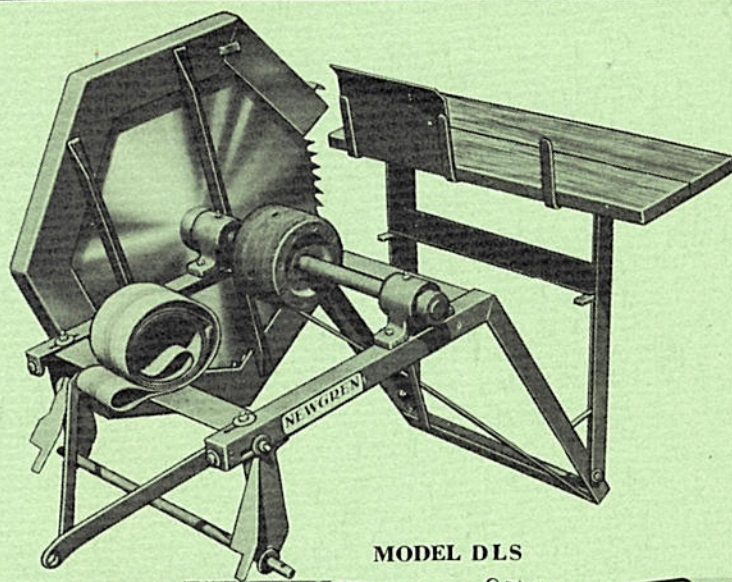
DENCO PRODUCTS, INC.

**640 National City Bank Building
CLEVELAND 14, OHIO**

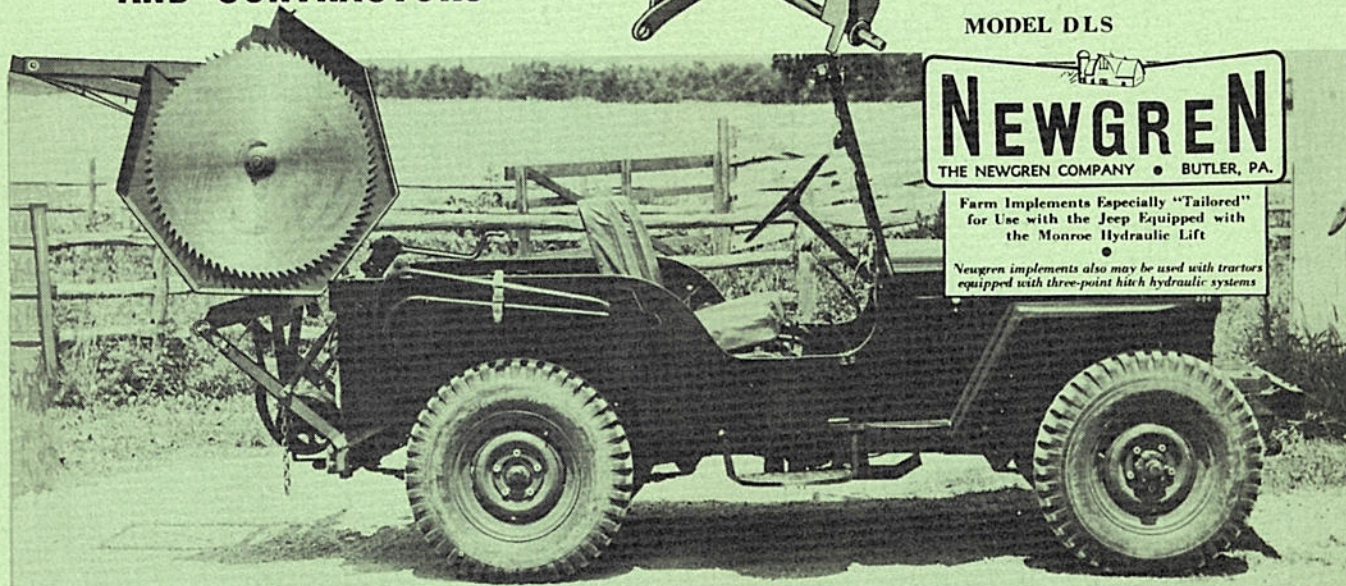
NEWGREN LIFT-TYPE BUZZ SAW

**SAWING
MADE EASIER
MADE FASTER**

**—FOR BOTH FARMERS
AND CONTRACTORS**



MODEL DLS



THE JEEP GETS IT TO THE JOB FASTER, TOO

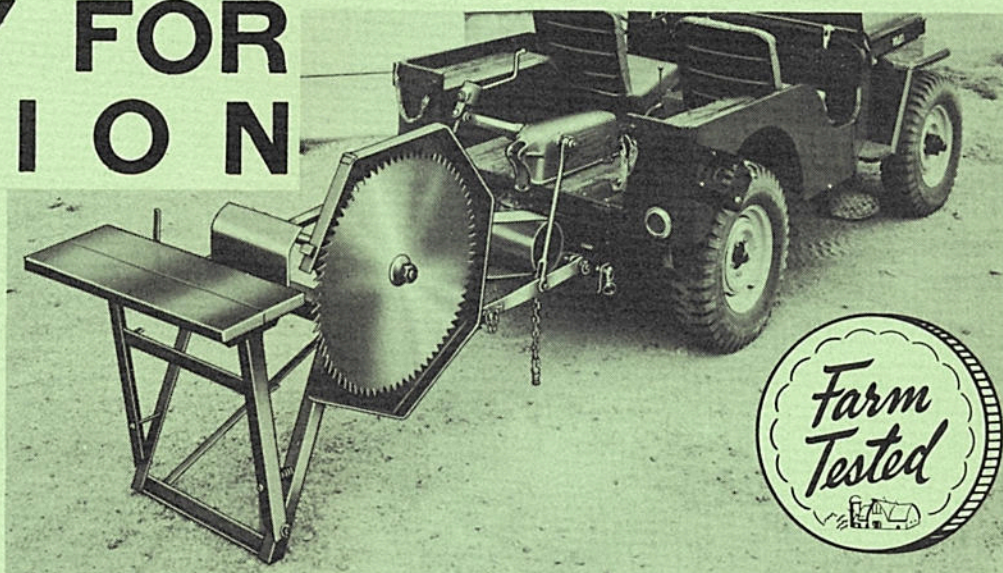
The Newgren Lift-Type Buzz Saw will operate anywhere the rugged, four-wheel-drive Jeep will travel. Raised to transport position by the Monroe Hydraulic Lift, this tool is completely portable, easily lowered to operating position where it requires no braces for steadiness, and gives you the capacity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

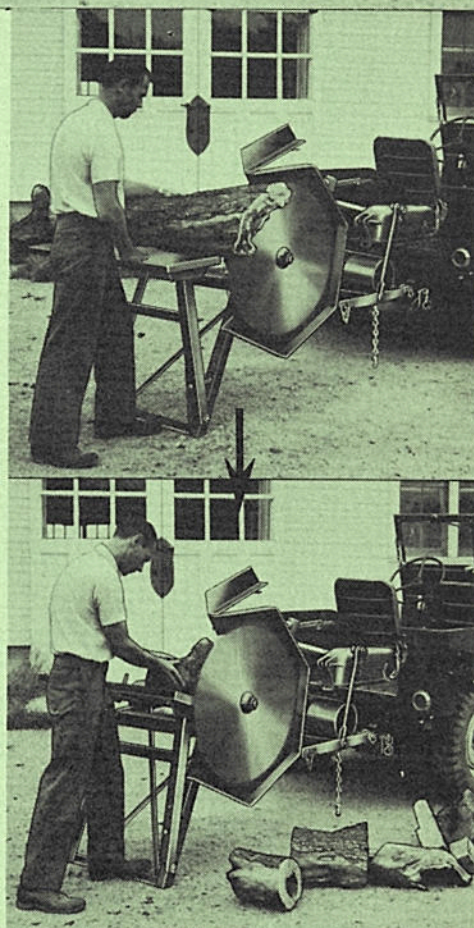
With just a few minutes to attach the Newgren saw to the Jeep power take-off and hydraulic lift, the saw is ready for operation. The Jeep governor is opened to the desired speed—generally three-quarters open—and the wood is placed on a convenient table in position for cutting. Holding the wood firmly 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.

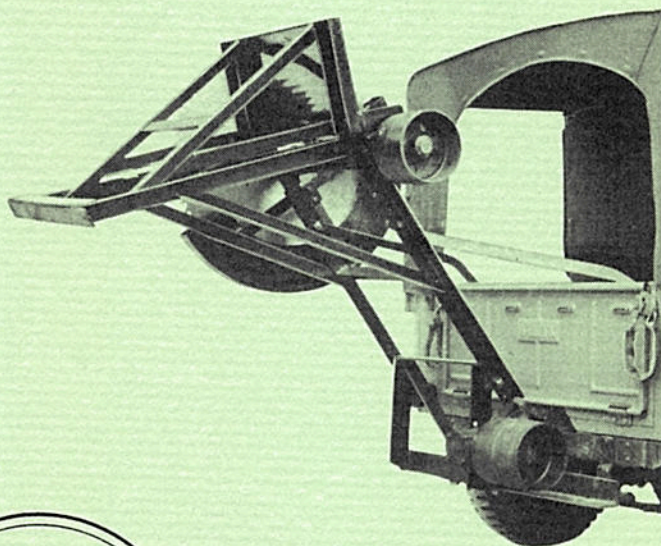


THE NEWGREN COMPANY

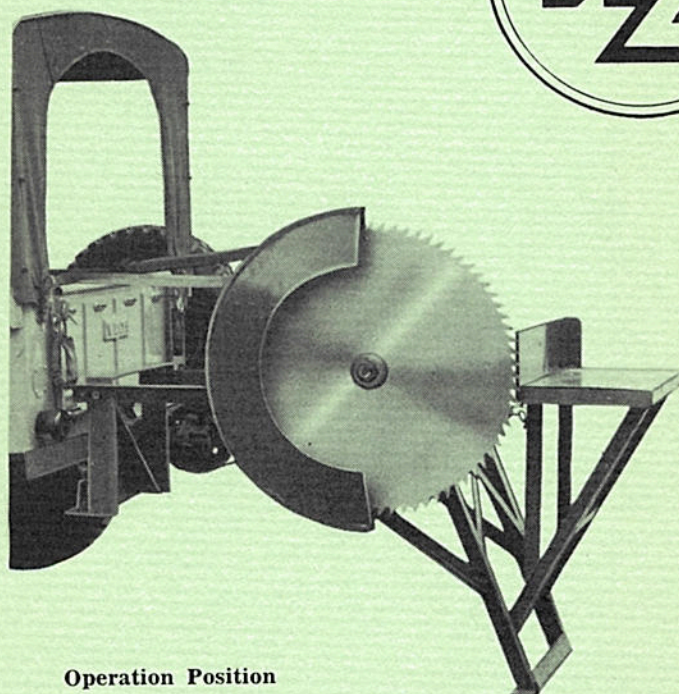
Engineers and Distributors of Farm-Tested Implements
BUTLER, PENNSYLVANIA

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

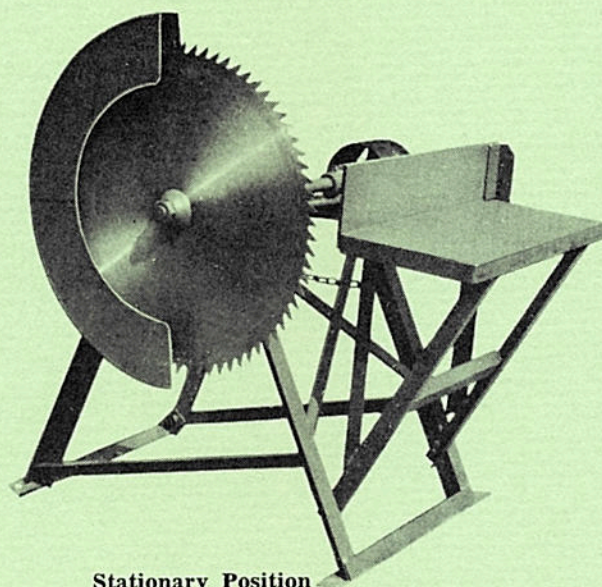
The H & Z combination cordwood saw is built with all the "know how" of over fifty years of manufacturing experience. The comments and criticisms representing thousands of satisfied users have controlled the design and construction of this superior saw.

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**



Stationary Position

**ALL
NECESSARY
CONVERSION
PARTS
INCLUDED**

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

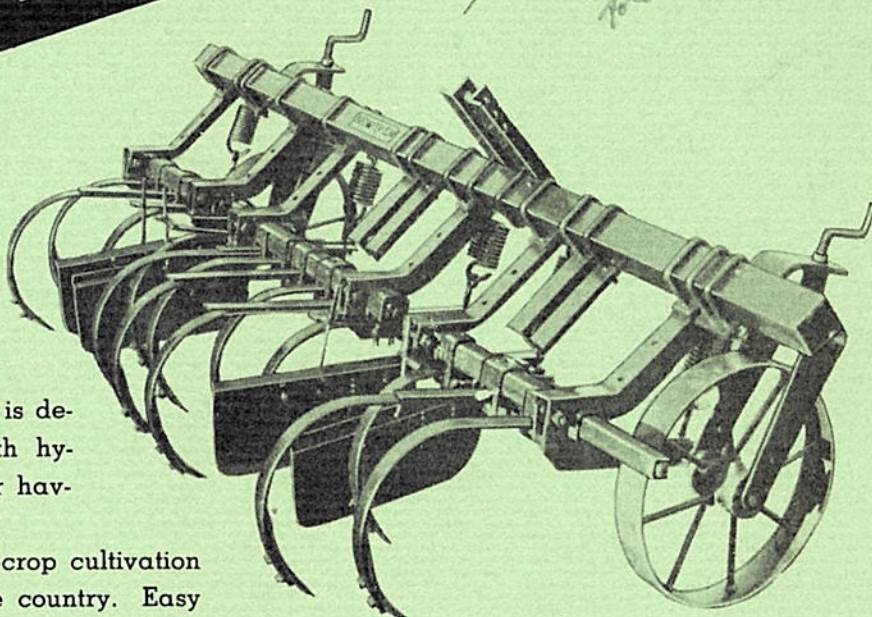
The Newgren Row-Crop Cultivator is designed for the Jeep equipped with hydraulic linkage system and tractor having three point hydraulic hitch.

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. for row cult. in Midwest
holders for Jeeps.*



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.

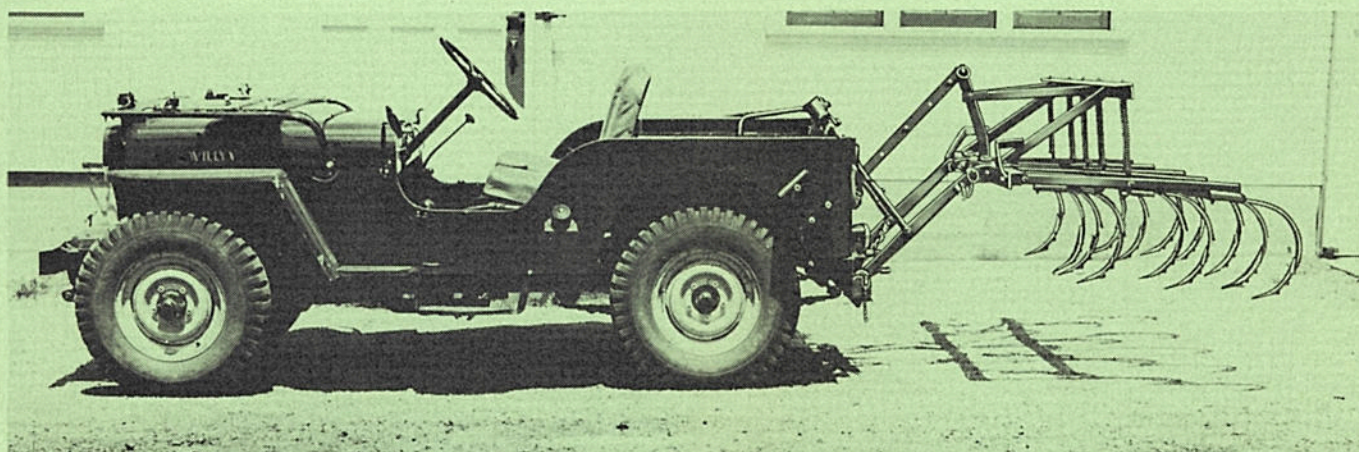
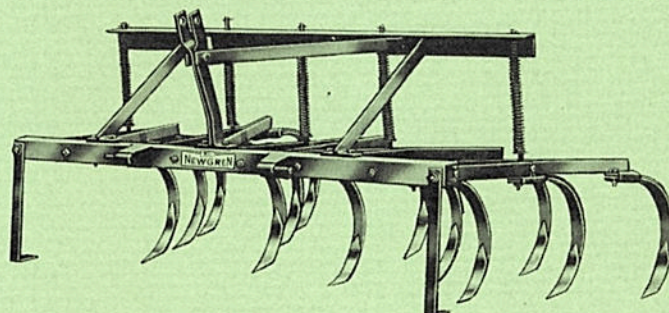
NEWGREN FIELD AND PASTURE CULTIVATOR

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.

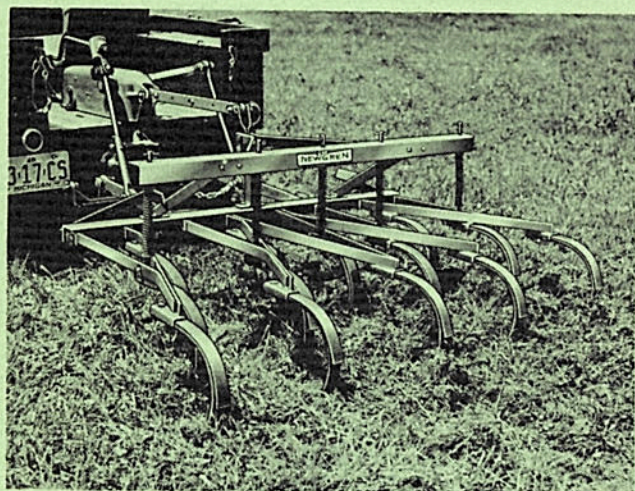
FOUR OF MANY FARM USES



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.

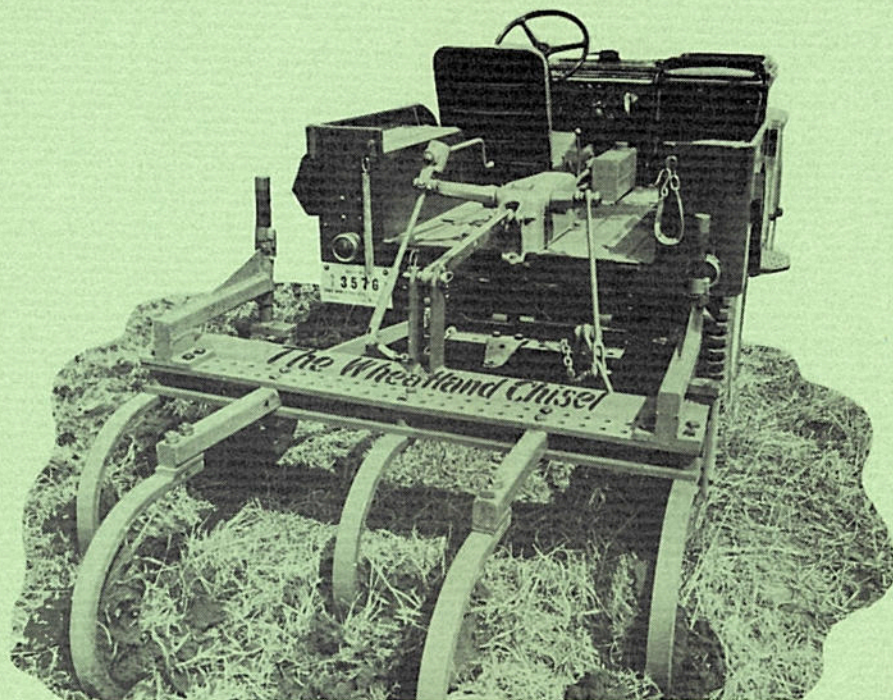
THE NEWGREN COMPANY

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

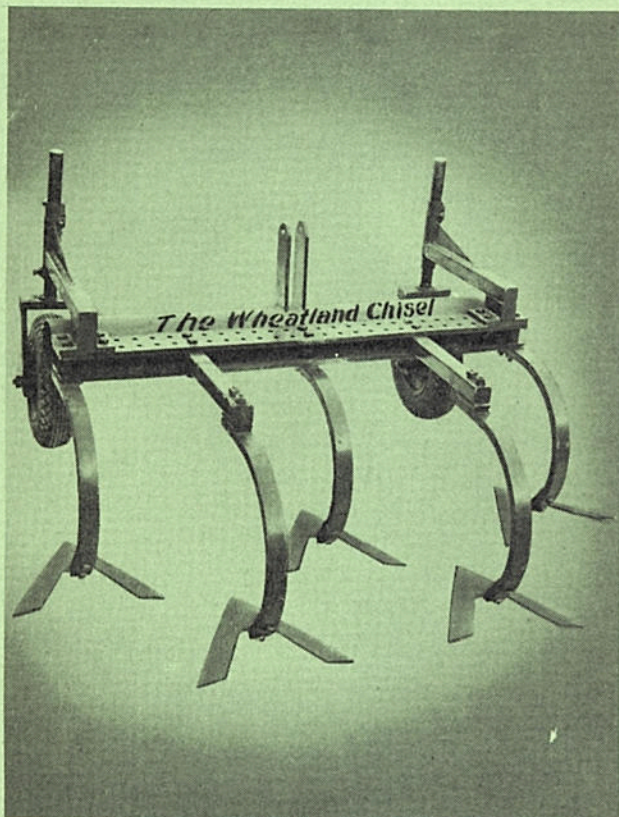
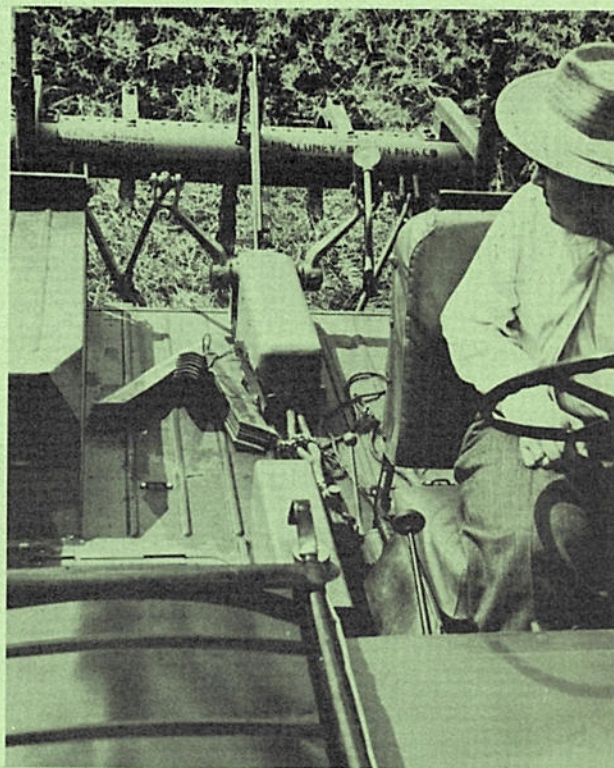
WILLYS-OVERLAND EQUIPMENT BOOK

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.



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).

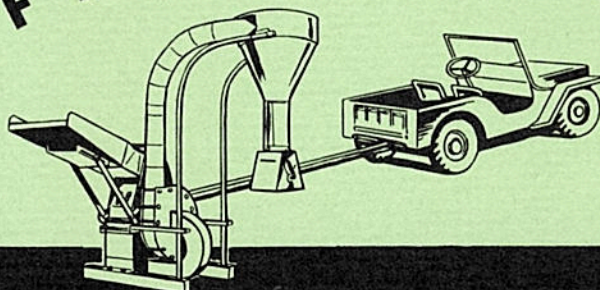
McCLUNEY & BROWN
MANUFACTURING COMPANY

205 MORNINGSIDE DRIVE

FORT WORTH, TEXAS

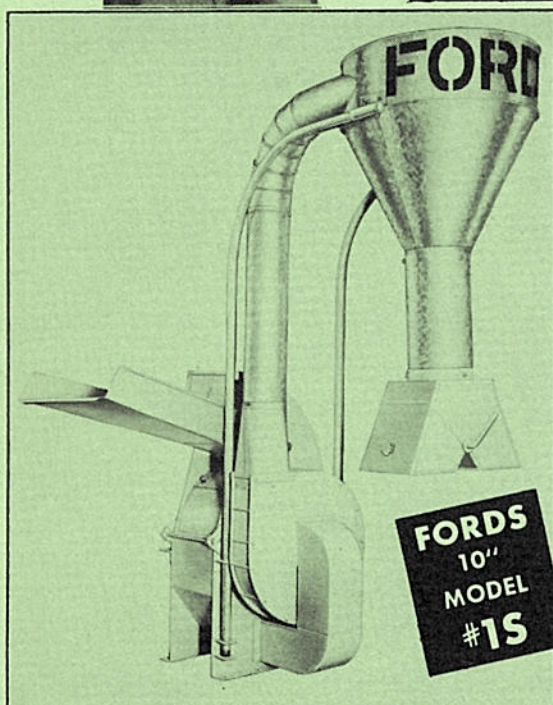


A HONEY OF A COMBINATION

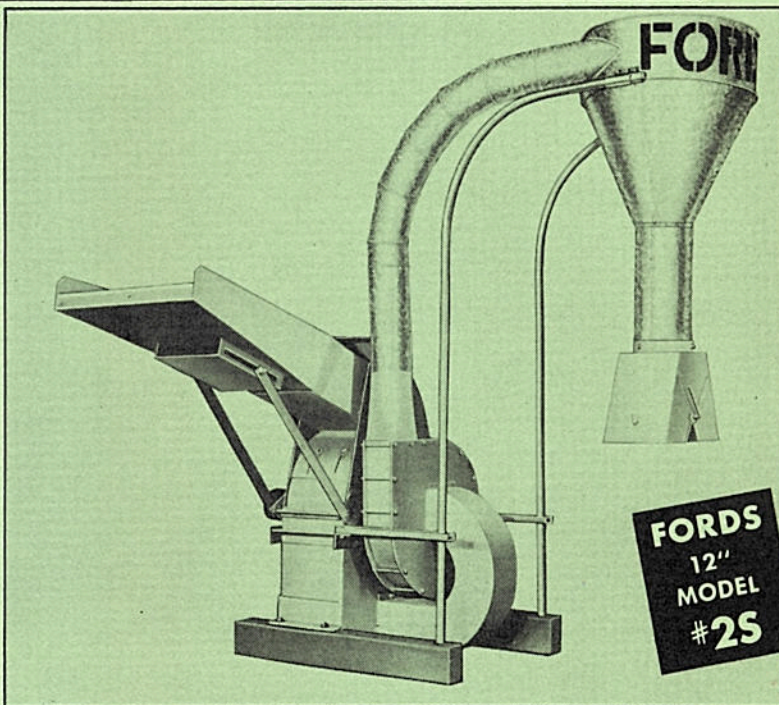


**A FORDS
HAMMERMILL**

powered by the
**UNIVERSAL
'Jeep'**



**FORDS
10"
MODEL
#15**



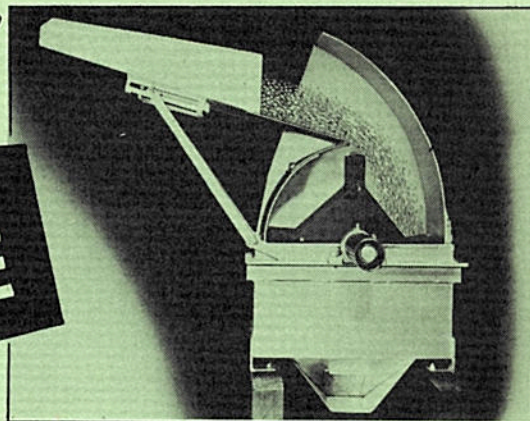
**FORDS
12"
MODEL
#25**

- 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!

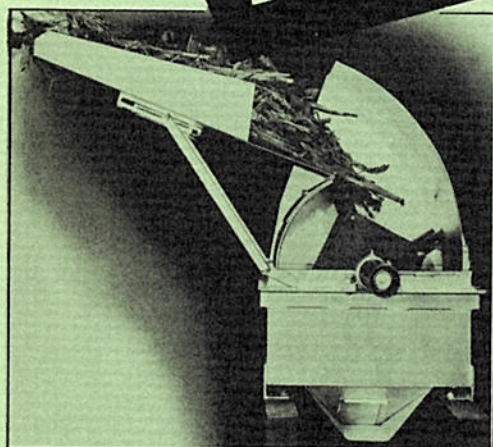
Only **FORDS HAMMERMILLS** *have the.....*

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*

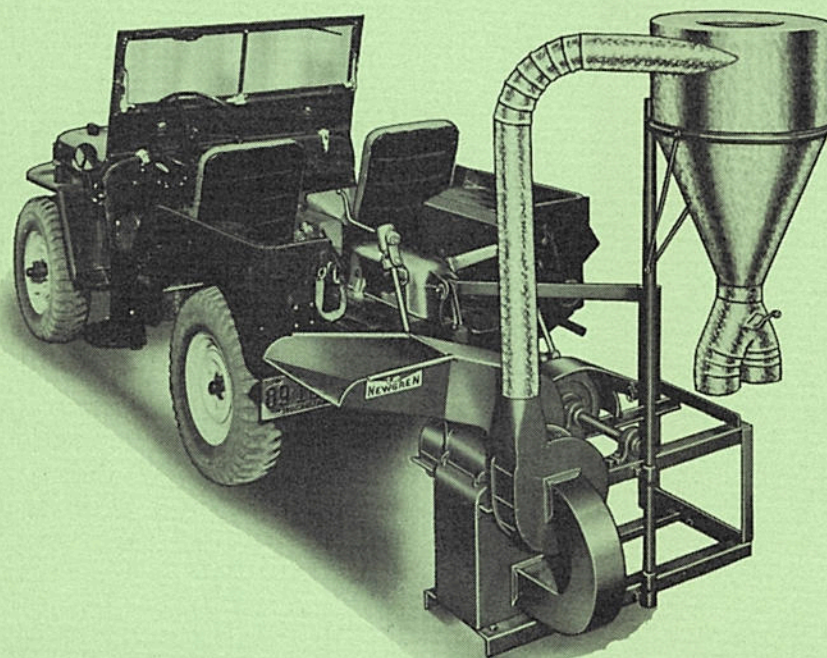


MYERS-SHERMAN CO.

STREATOR 1, ILLINOIS

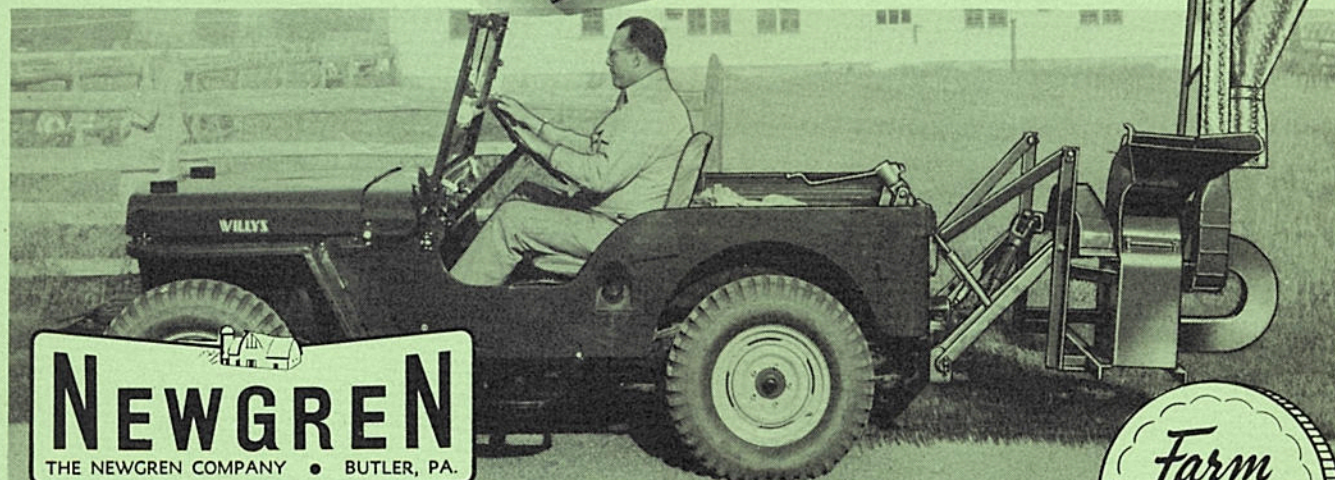
NEWGREN "PORTO-MILL" FEED GRINDER

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

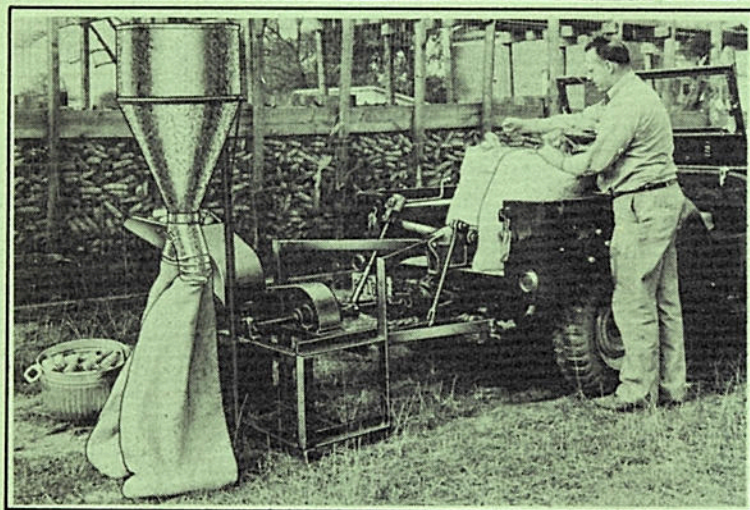
Newgren implements also may be used with tractors
equipped with three-point hitch hydraulic systems

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

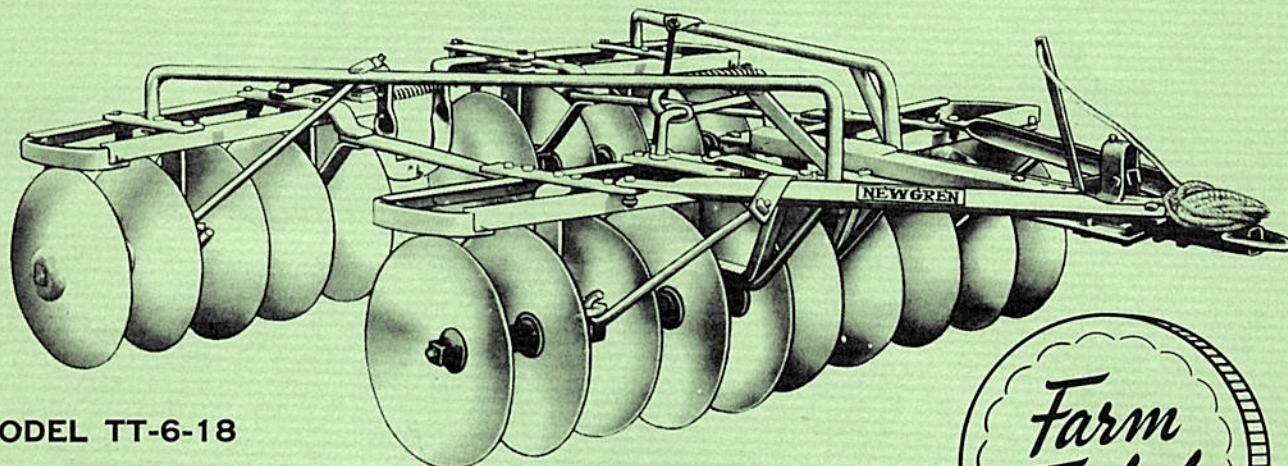
Sturdy sheet steel housing, welded throughout. 16 balanced, reversible swinging hammers. Precision balanced chrome-moly axle shaft mounted on two self-aligned, dustproof ball bearings. $\frac{3}{8}$ -inch screen standard equipment. Other screens— $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$ or $\frac{3}{4}$ 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

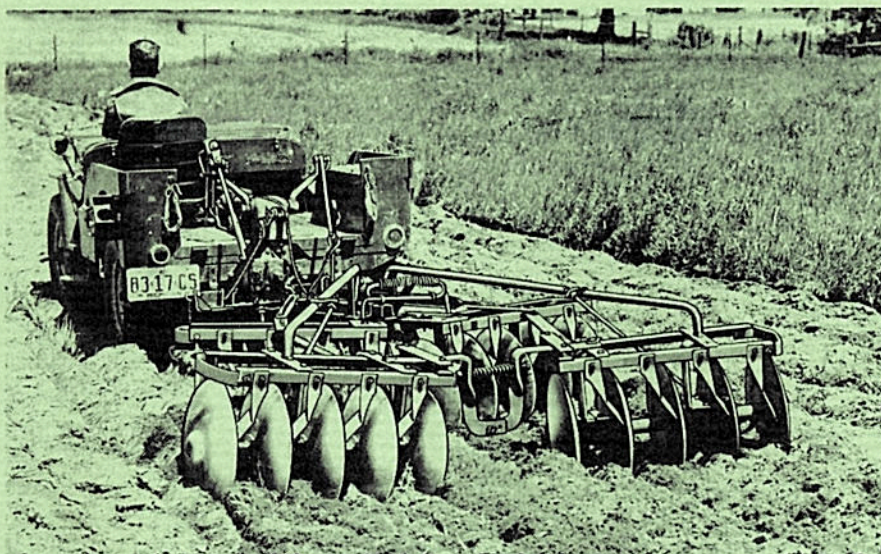
Engineers and Distributors of Farm-Tested Implements
BUTLER, PENNSYLVANIA

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.

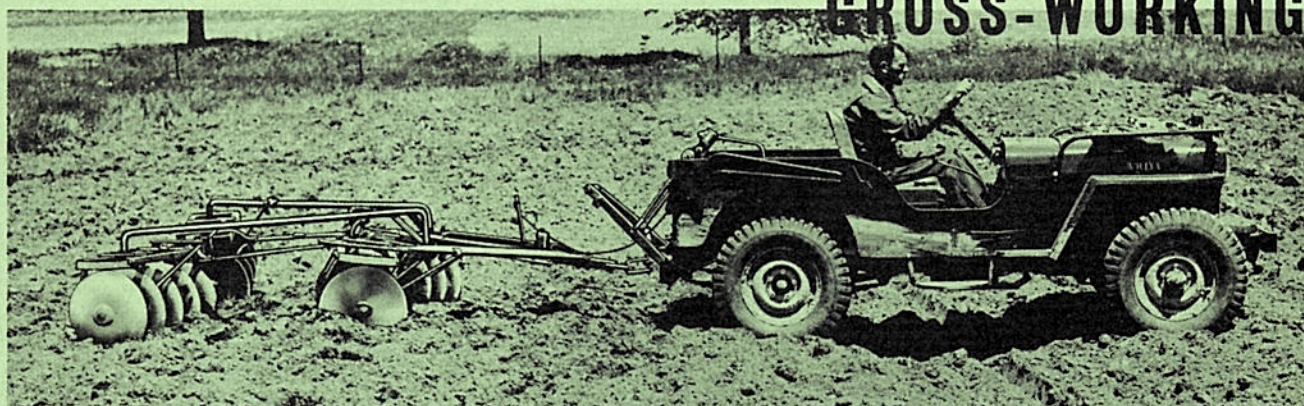
MODEL TT-7-16
7 ft., 16 in. Blades
Weight, 1,050 lbs.

THE NEWGREN COMPANY • BUTLER, PA.

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



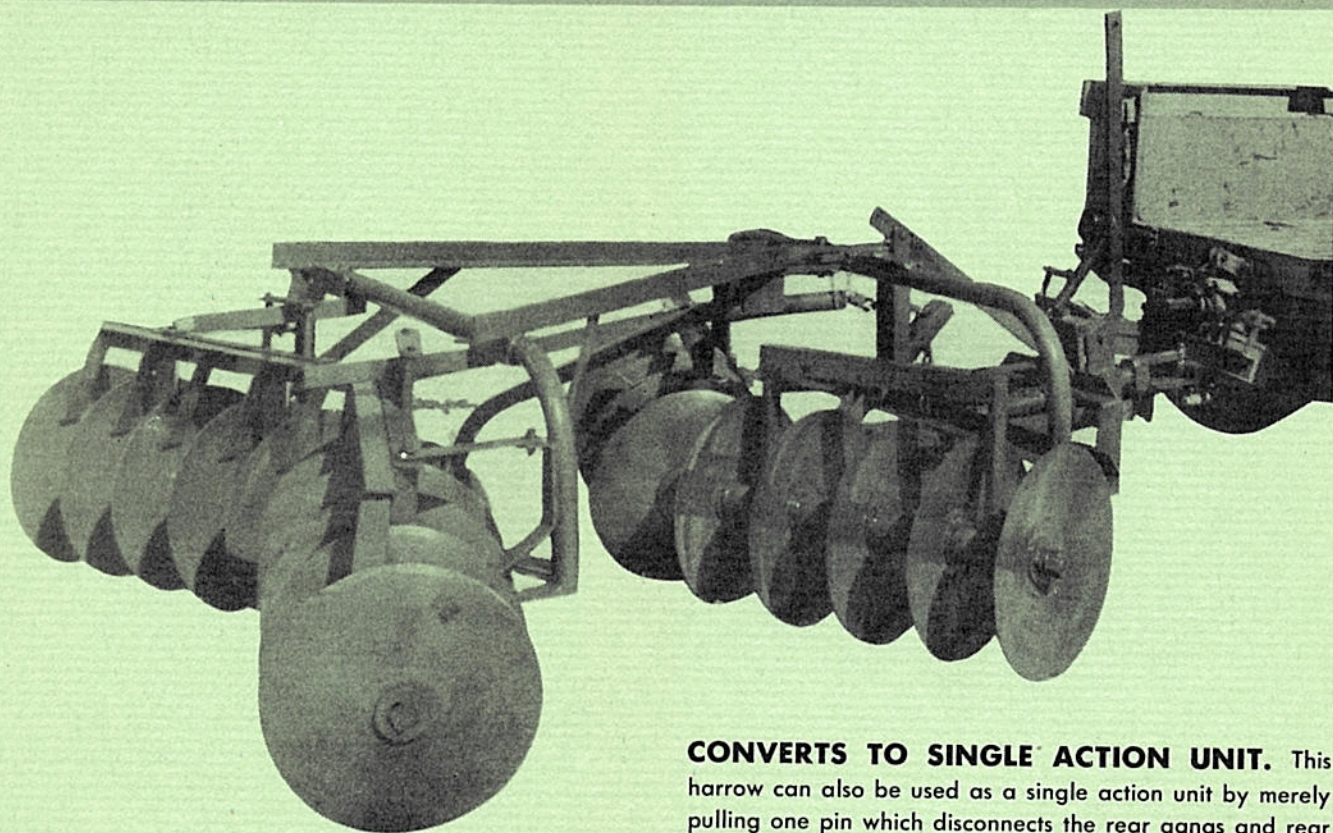
The patented Love lift-type tandem disc harrow attaches to all standard three-point type hydraulic linkage systems. Lifts completely off the ground for turning-backing-transporting. Modern, all steel welded construction, together with $7\frac{5}{8}$ inch wide blade spacing makes this an ideal unit for 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:

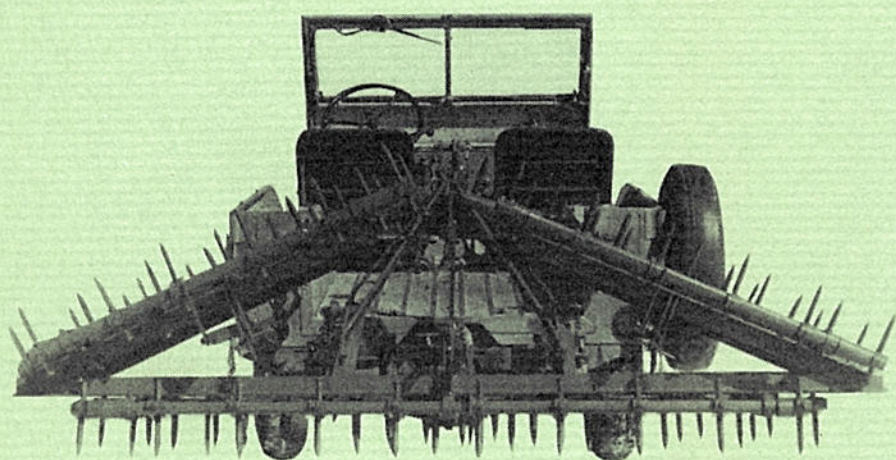
SIZE	CUTTING WIDTH INCHES	NO. OF BLADES	SIZE BLADES IN INCHES			SIZE OF AXLES OR GANG BOLTS		APPROXIMATE SHIP WEIGHT
5 ft.	66	16	16	18	20	$\frac{3}{8}$ in.	$1\frac{1}{8}$ in.	596 lbs.
6½ ft.	80	20	16	18	20	$\frac{3}{8}$ in.	$1\frac{1}{8}$ in.	660 lbs.
8 ft.	97	24	16	18	20	$\frac{3}{8}$ in.	$1\frac{1}{8}$ in.	720 lbs.
9 ft.	112	28	16	18	20	$\frac{3}{8}$ in.	$1\frac{1}{8}$ in.	850 lbs.

LOVE TRACTOR, INCORPORATED Eau Claire, Mich.

LOVE SPIKE TOOTH HARROWS

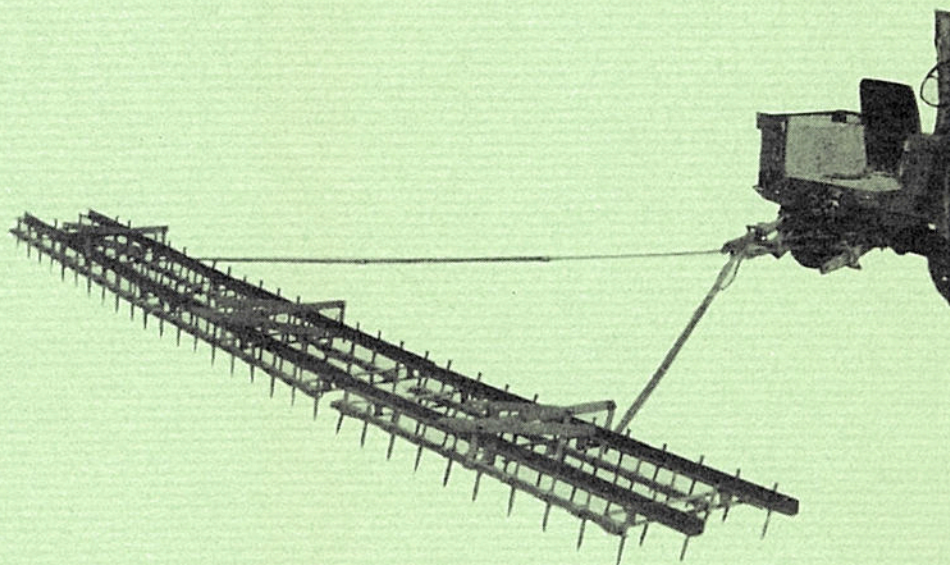
LIFT TYPE

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.



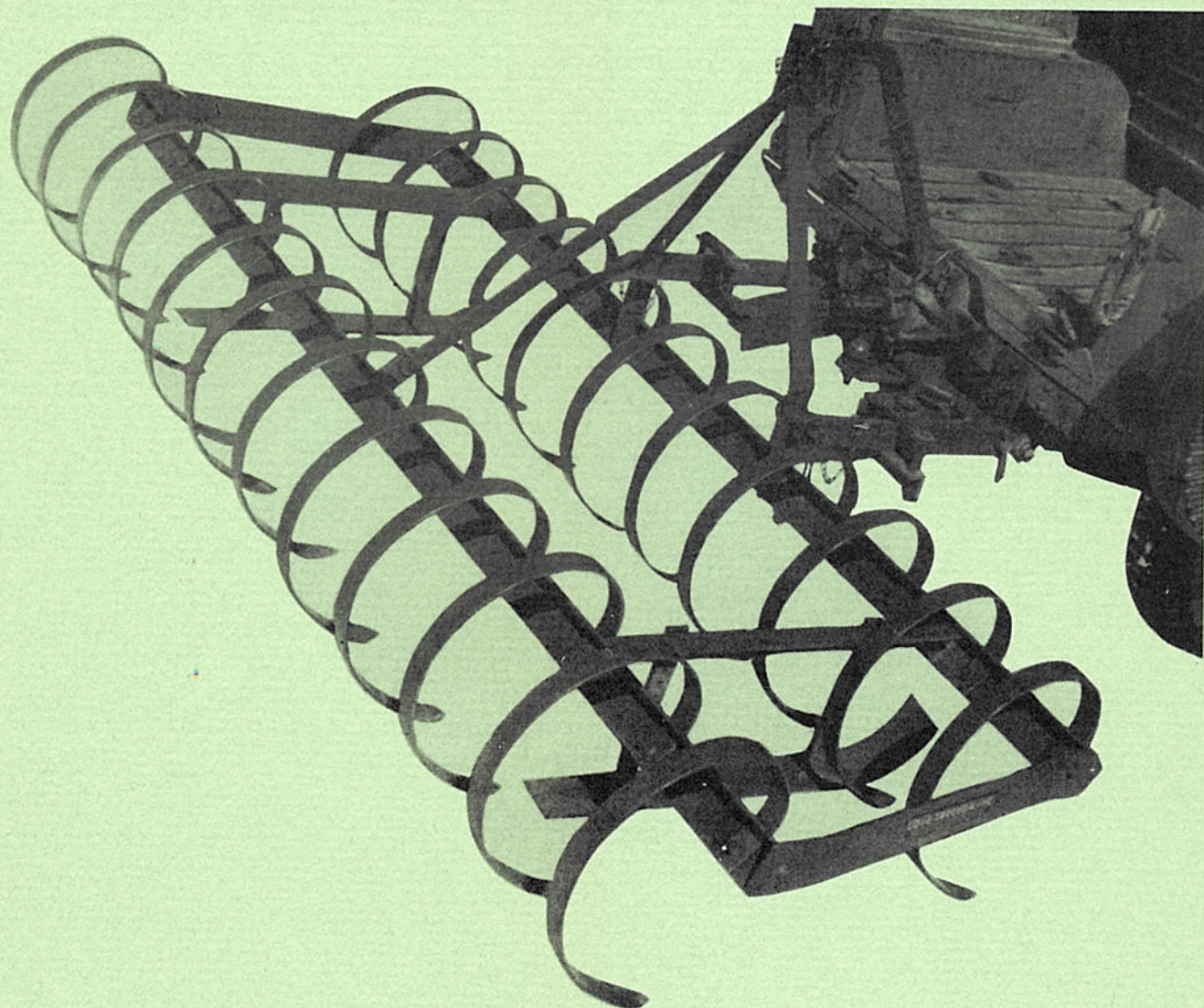
PULL TYPE

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.

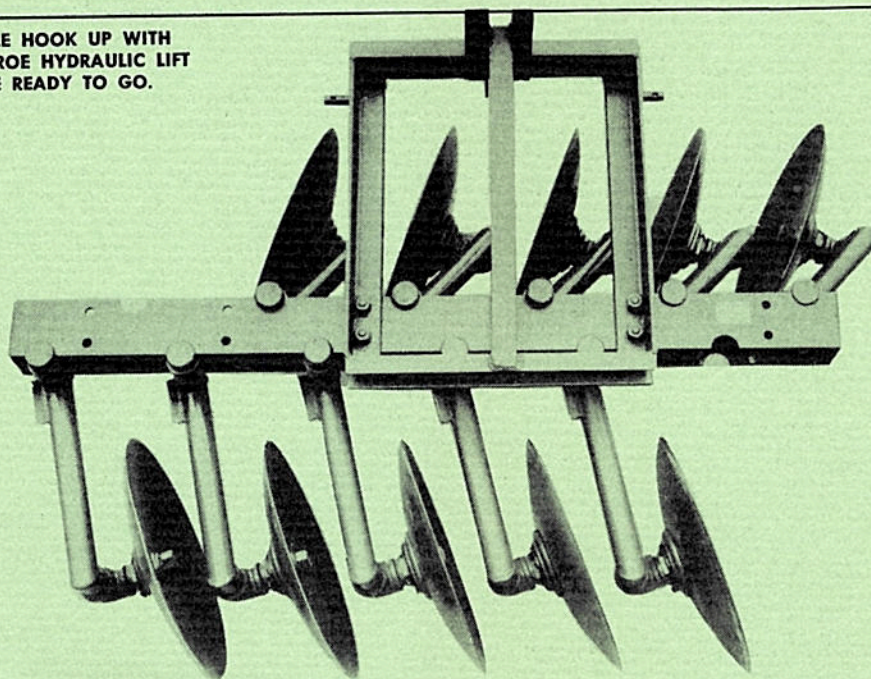
LOVE TRACTOR, INCORPORATED Eau Claire, Mich.

McMAHON

Lift Type **DISC HARROW**

**PROVIDES A DISC PLOW ACTION WITH A DISC HARROW RESULT.
MAXIMUM PENETRATION WITH 22"X8 GA. DISC BLADES—
HAS BEEN MARKETING & 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.

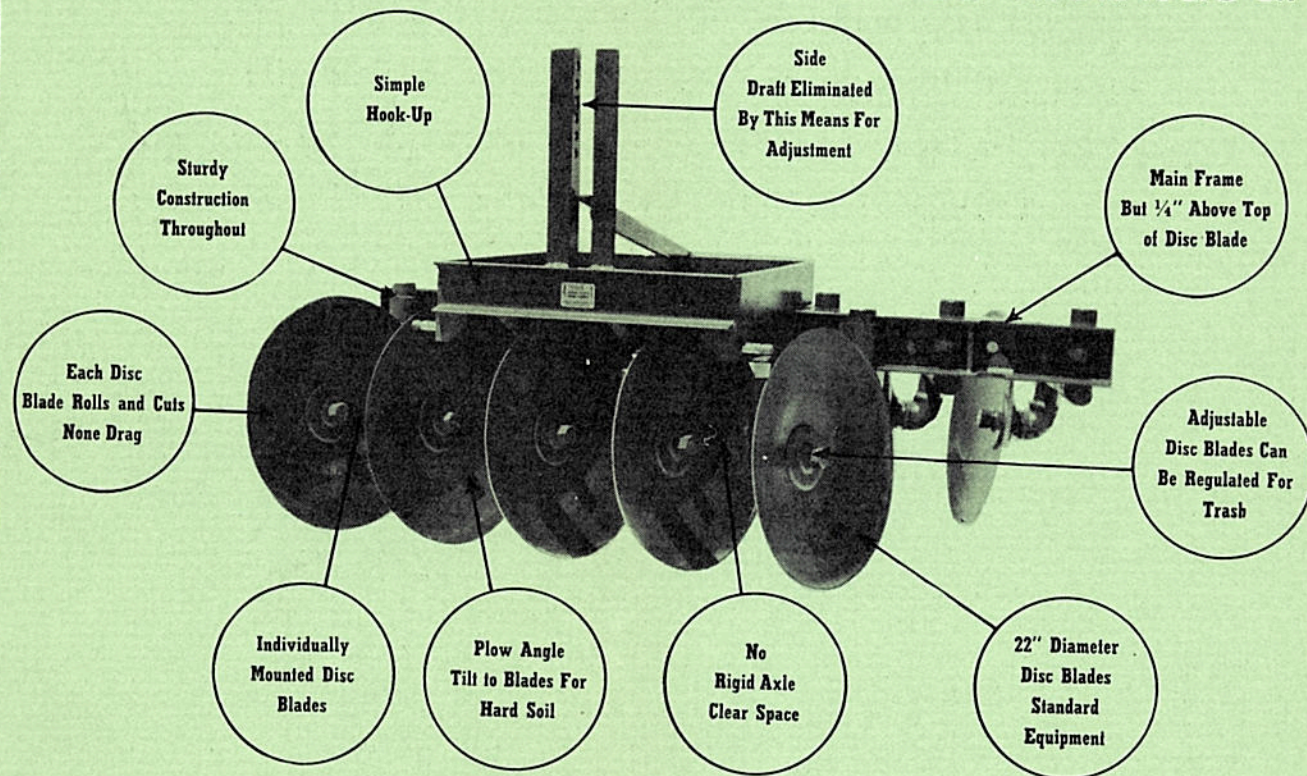
MAIN OFFICE AND WORKS: RIVERSIDE, CALIF., U.S.A.

P. O. Box 803

McMAHON

Lift Type **DISC HARROW**

FOR WILLYS UNIVERSAL JEEP WITH MONROE HYDRAULIC LIFT



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

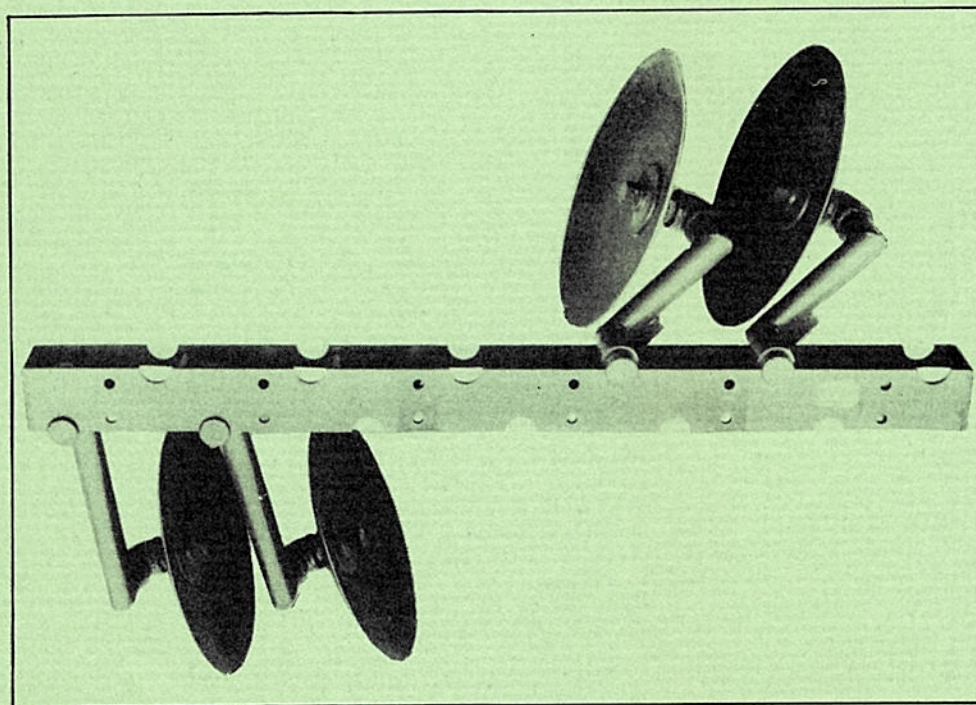
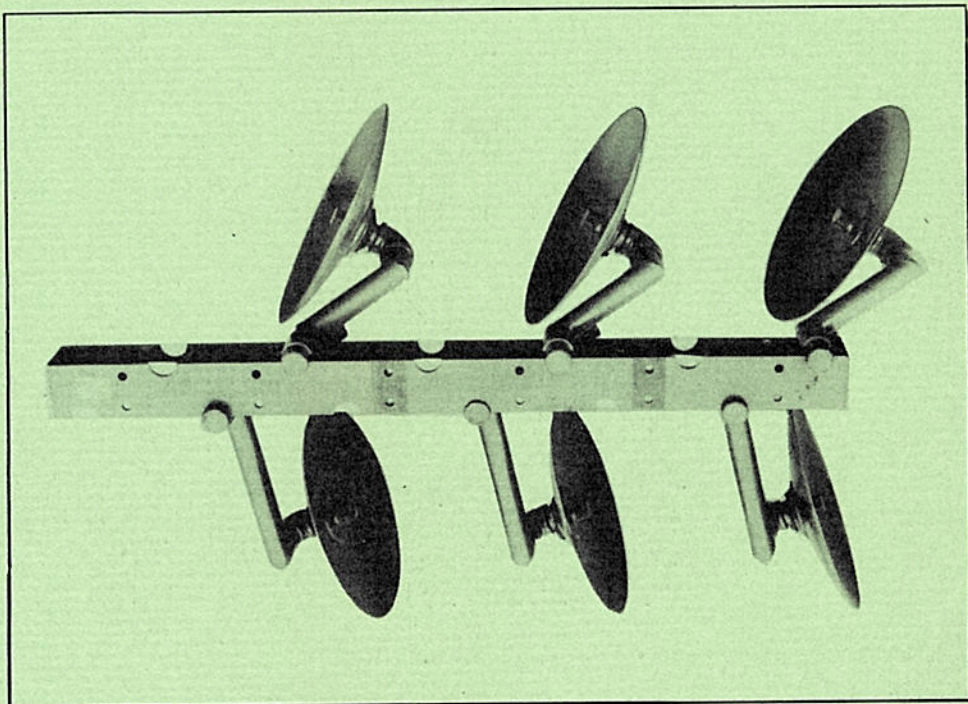
You Can
Weave In and Out
With It

For Hard Soil and Heavy Duty Work

McMAHON

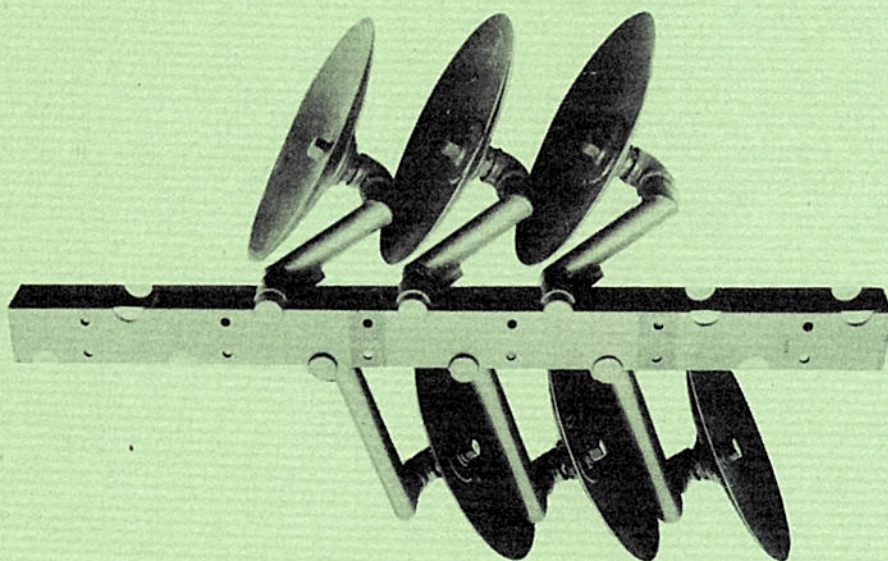
Lift Type DISC HARROW

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.



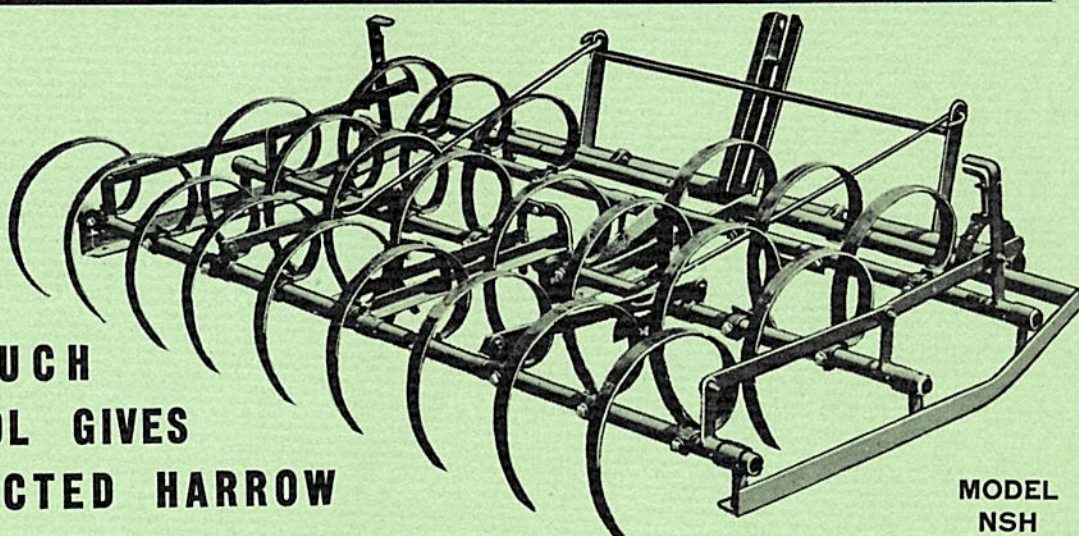
ORDERS TO BE SENT TO

McMAHON MANUFACTURING CO., INC.

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

P. O. Box 803

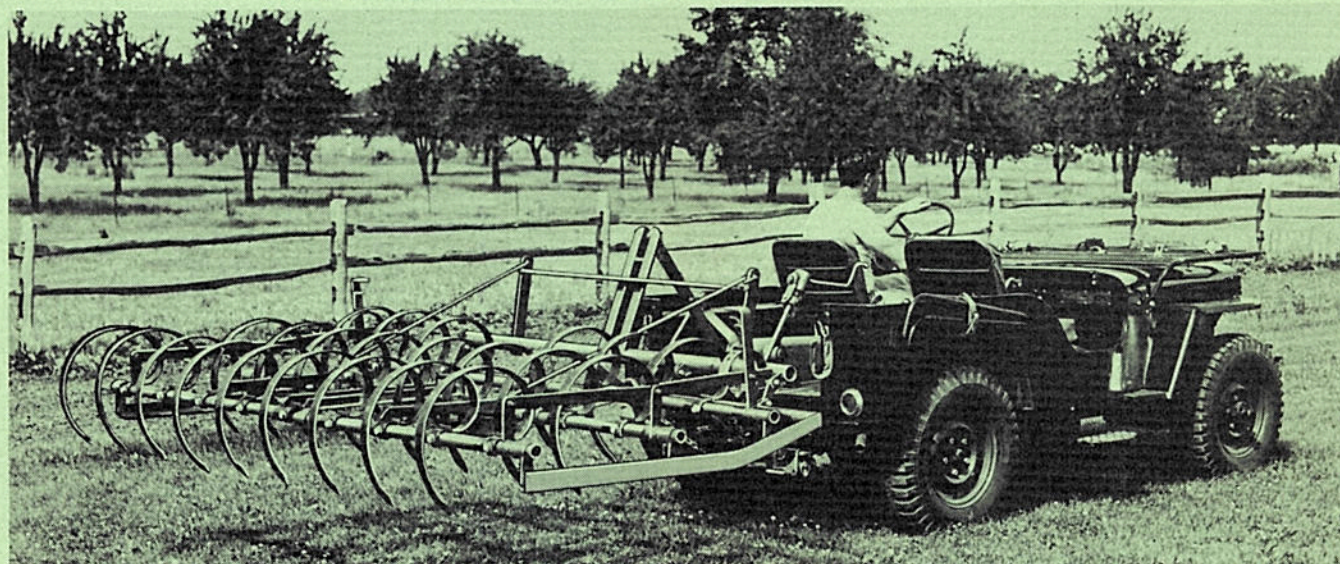
NEWGREN SPRING-TOOTH HARROW



**MODEL
NSH**

**FINGER-TOUCH
LIFT CONTROL GIVES
THIS PERFECTED HARROW**

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*

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



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.

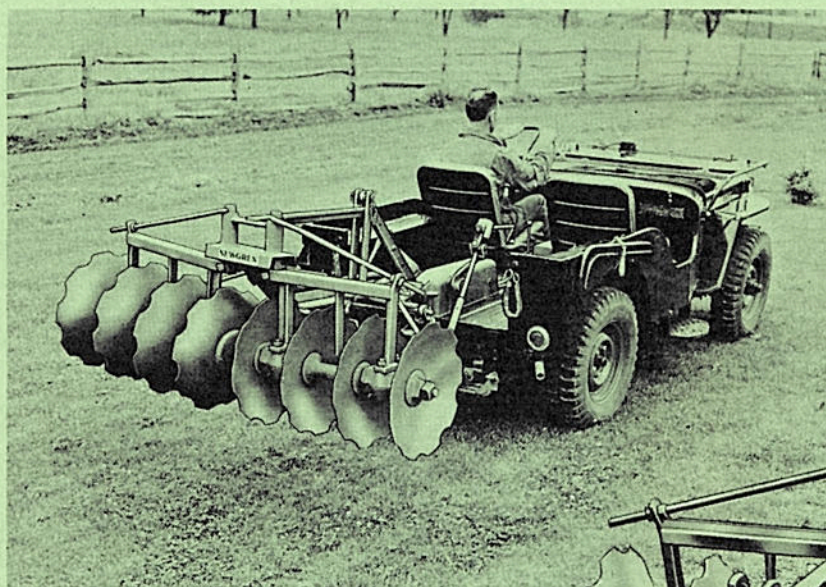
THE NEWGREN COMPANY

Engineers and Distributors of Farm-Tested Implements

BUTLER, PENNSYLVANIA

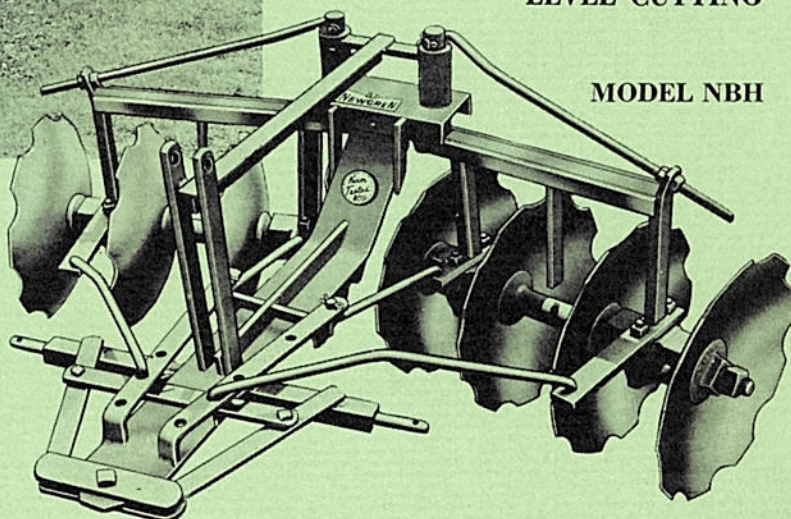
NEWGREN BUSH AND BOG HARROW

**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 . . ."

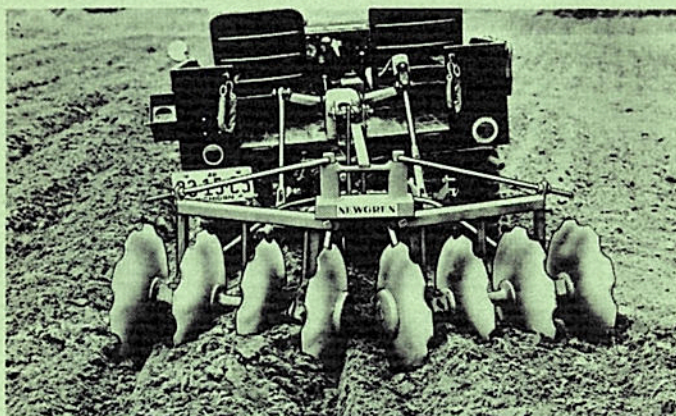
HERE'S WHAT THE BUSH AND BOG HARROW WILL DO

- 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.



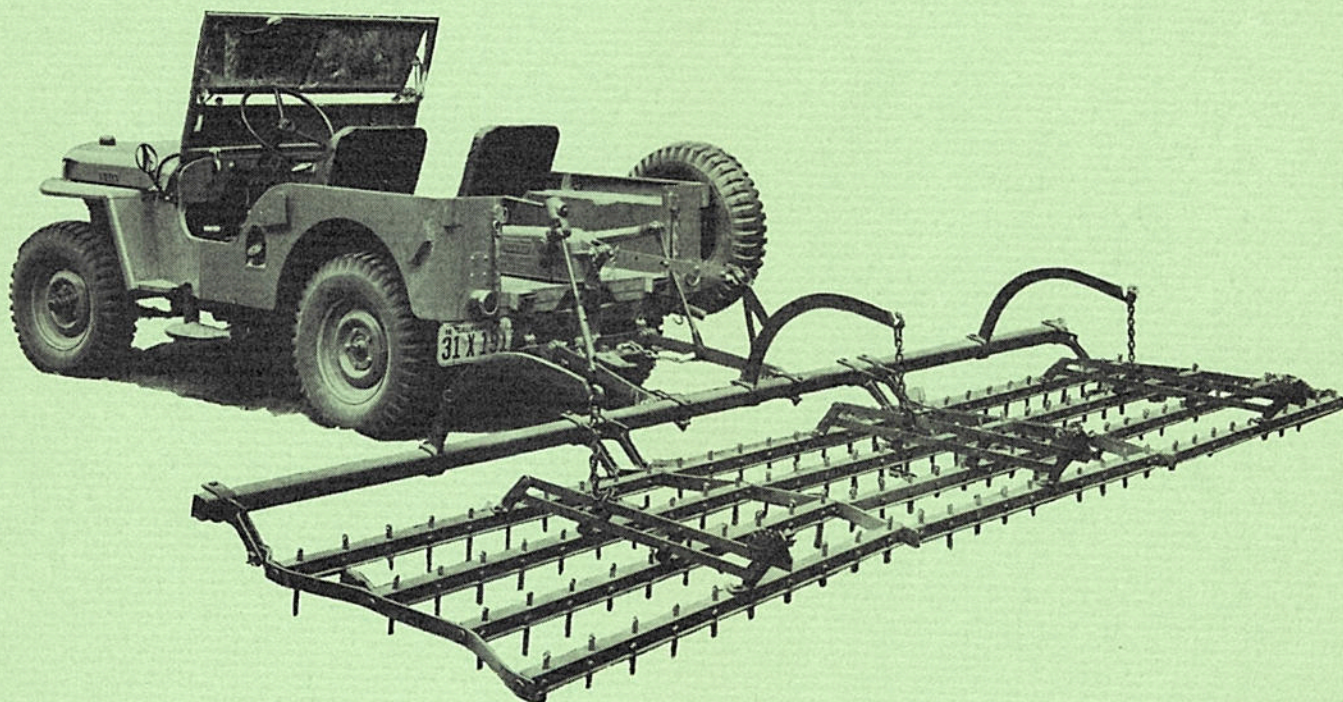
Views of the Newgren lift-type Bush and Bog Harrow in action, reworking hard, packed ground, and summer fallowing.

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



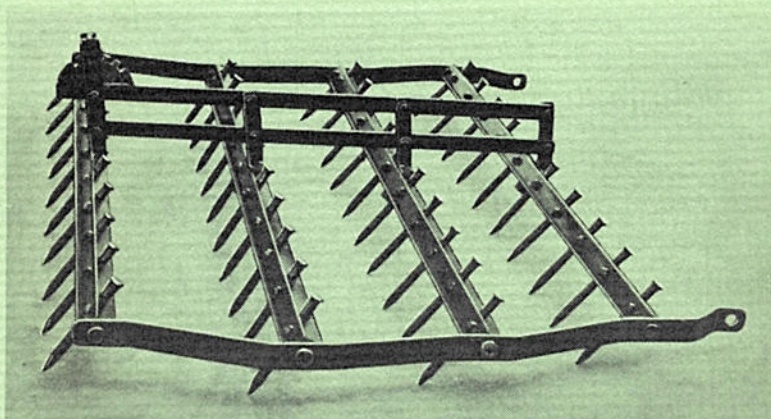
and IMPLEMENT COMPANY

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.



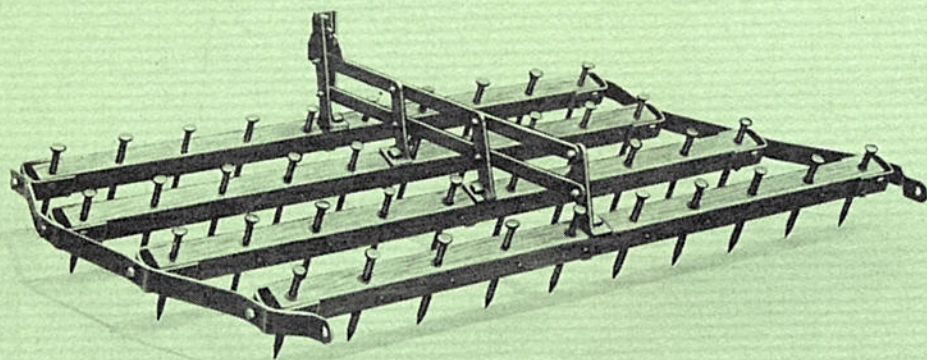
FOUR SIZES: 3 Ft.—24 Teeth; 4 Ft.—32 Teeth. 5 Ft.—40 Teeth; 6 Ft.—48 Teeth. Maximum Load for Jeep—12 Ft.

TOOTH SIZE: $\frac{1}{2}$ " 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 $1\frac{1}{2}$ ".

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

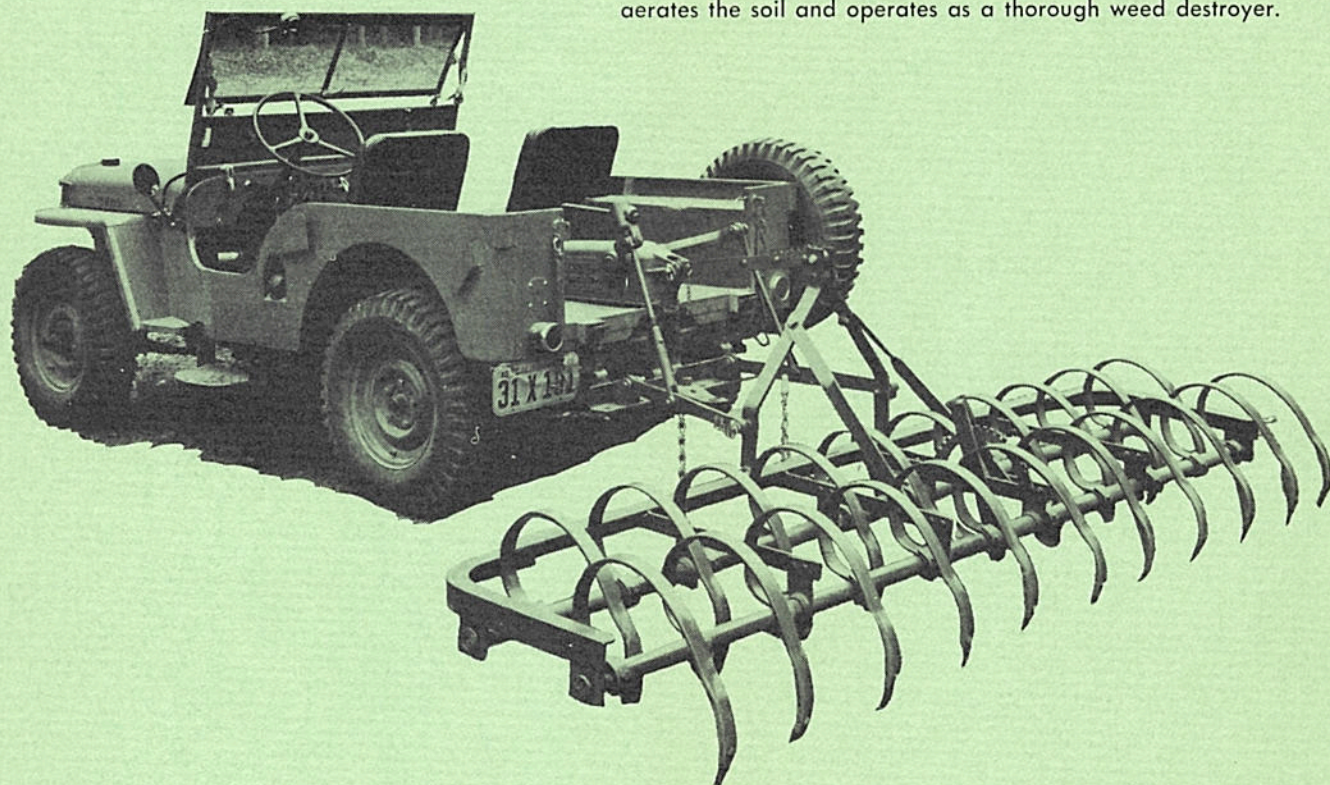


1056 EAST FRONT ST., VENTURA, CALIF.

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'.

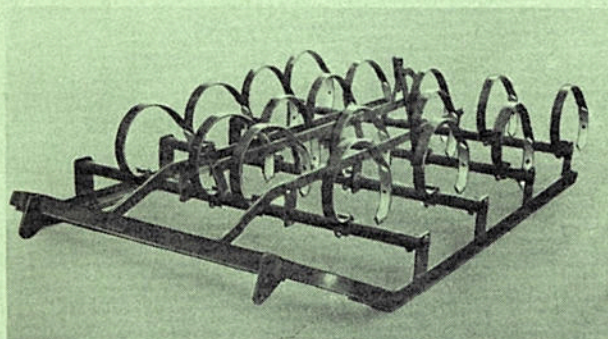
FOR DETAILED INFORMATION, SPECIAL INSTRUCTIONS OR ADDITIONAL LITERATURE WRITE

Manufactured by:

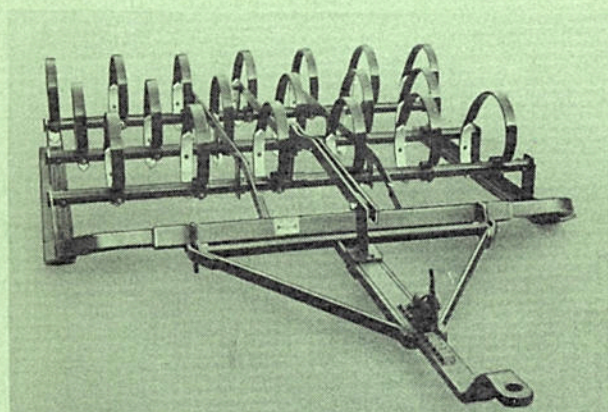
VENTURA MANUFACTURING  **and IMPLEMENT COMPANY**

1056 EAST FRONT ST., VENTURA, CALIF.

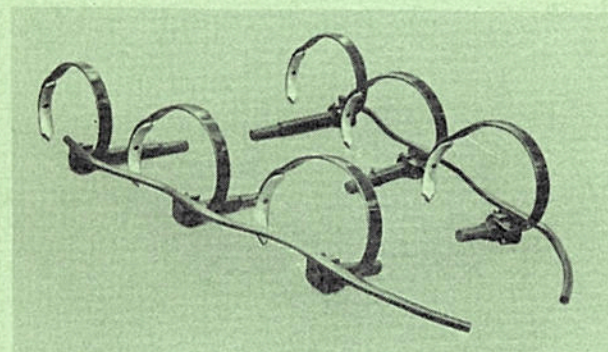
WILLYS-OVERLAND EQUIPMENT BOOK



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



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

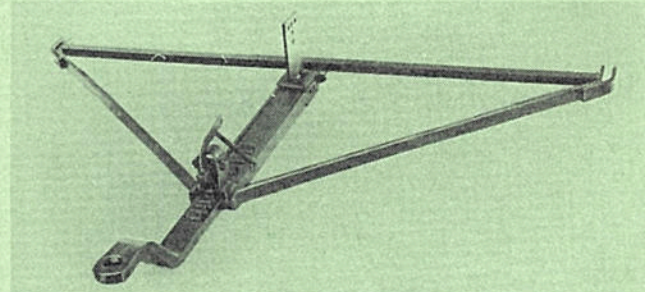


One set of harrow extensions. These may be installed on either three-bar or four-bar hand lift or power lift harrows, for greater coverage. These extensions provide 12 inches additional width on each side of all V. M. & I. harrows.

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.



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.

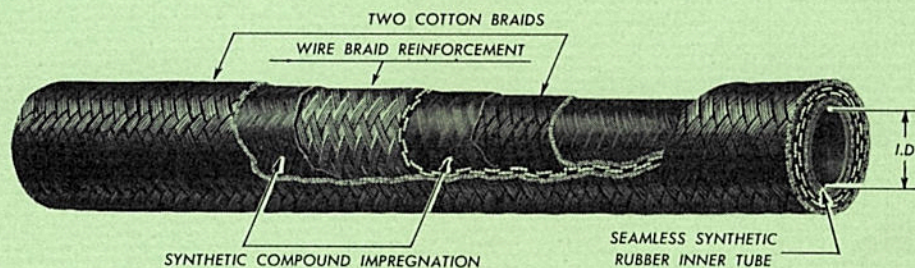
Reduced Operating Costs: Eliminate necessity of stocking large quantities of factory assembled hose lines.

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.

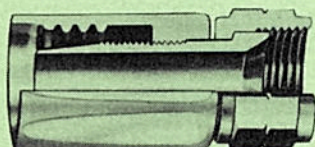
SINGLE WIRE BRAID HOSE — TYPE 1503



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"

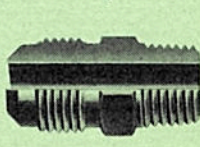
* Specify In Feet.

FITTING NO. 401
S.A.E. Thread



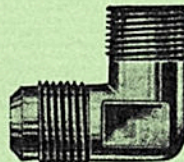
Size	S.A.E. Thread
401-6	5/8-18
401-8	3/4-16

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



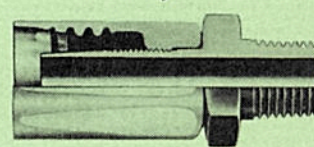
Size	Pipe Thread	S.A.E. Thread
2000-4-6	1/4"	5/8-18
2000-6-8	3/8"	3/4-16

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



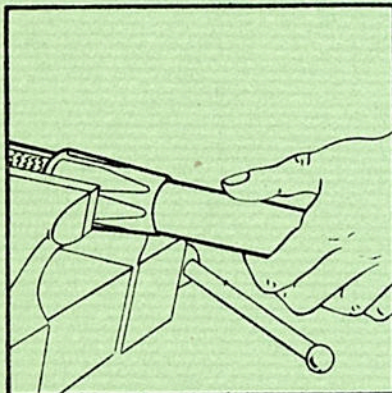
Size	Pipe Thread
412-6	1/4"
412-8	3/8"

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

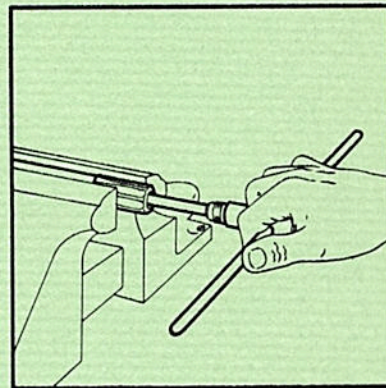


STEP 2

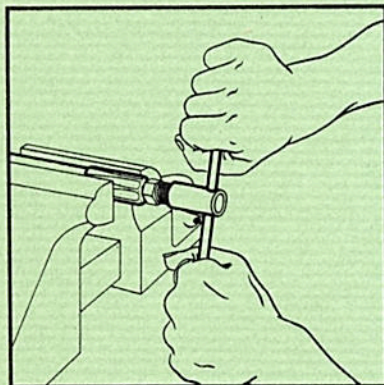
Step 1—Cut hose square to length required using hacksaw (fine tooth blade), or abrasive cut off wheel.

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

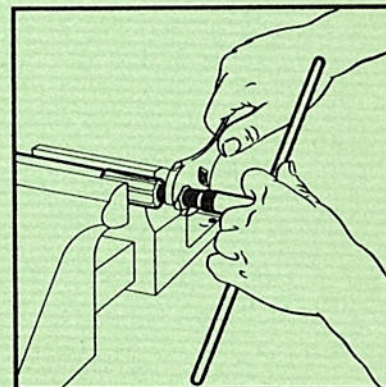


STEP 4

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.

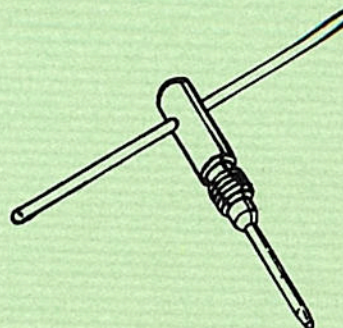
For assembly of 1503-8 hose with 401-8 or 412-8 Fittings use assembly tool 1582-4-8.

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

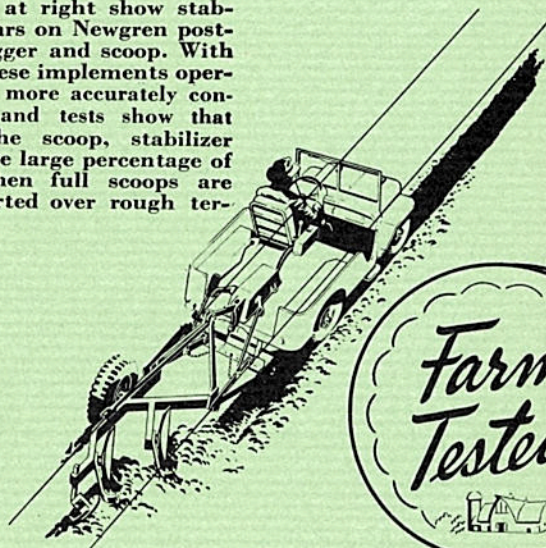
TWO STAY BARS AND FITTINGS FOR RIGID CONTROL of



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.

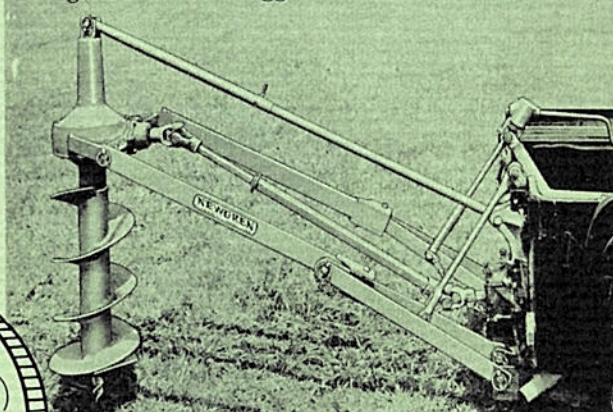


Newgren stabilizer kits consist of two steel arms and mounting brackets for installation as a complement to the Monroe Hydraulic Lift for the Universal Jeep. The brackets bolt to and extend under the Jeep draw bar. Arms are installed from bracket to mounting pins of implement through lift connections, 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.

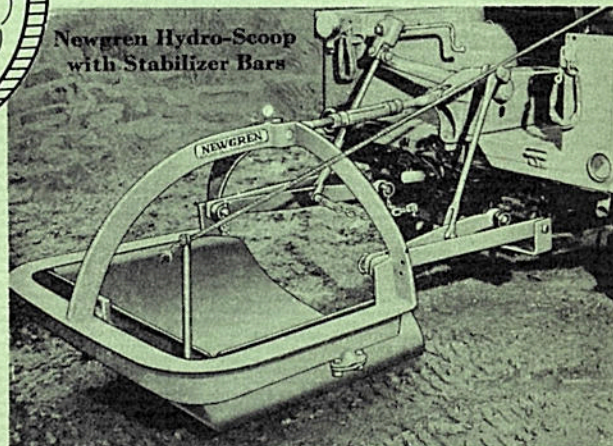
*Disc Plows
Forge Base Plows
Cultivators
Mowers
Scoops
Post-Hole Diggers
Terracing Blades*

—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



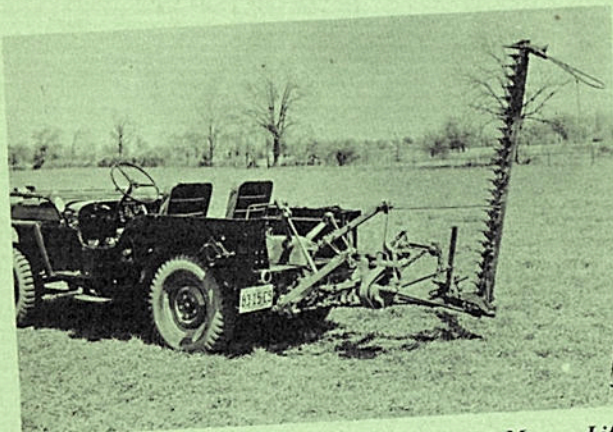
Newgren Hydro-Scoop with Stabilizer Bars



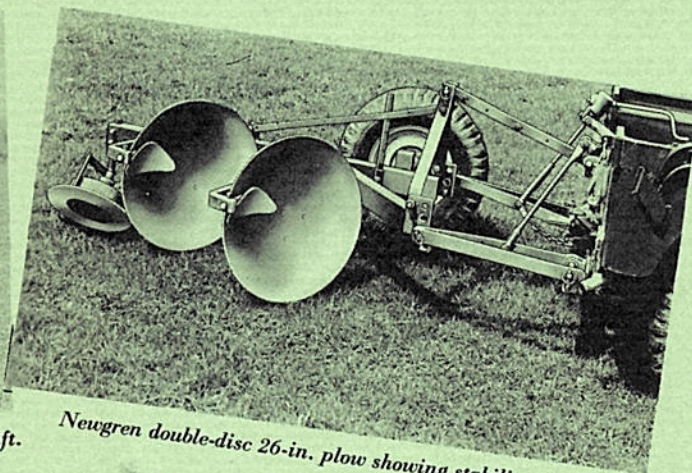
THE NEWGREN COMPANY • BUTLER, PA.

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.

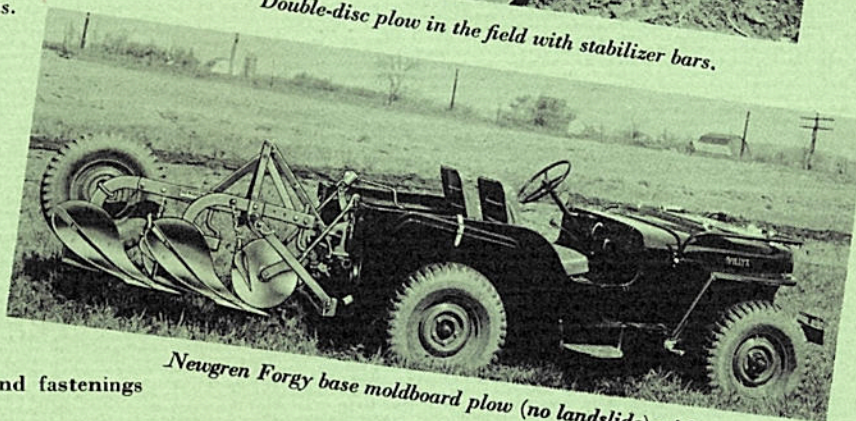


Double-disc plow in the field with stabilizer bars.

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



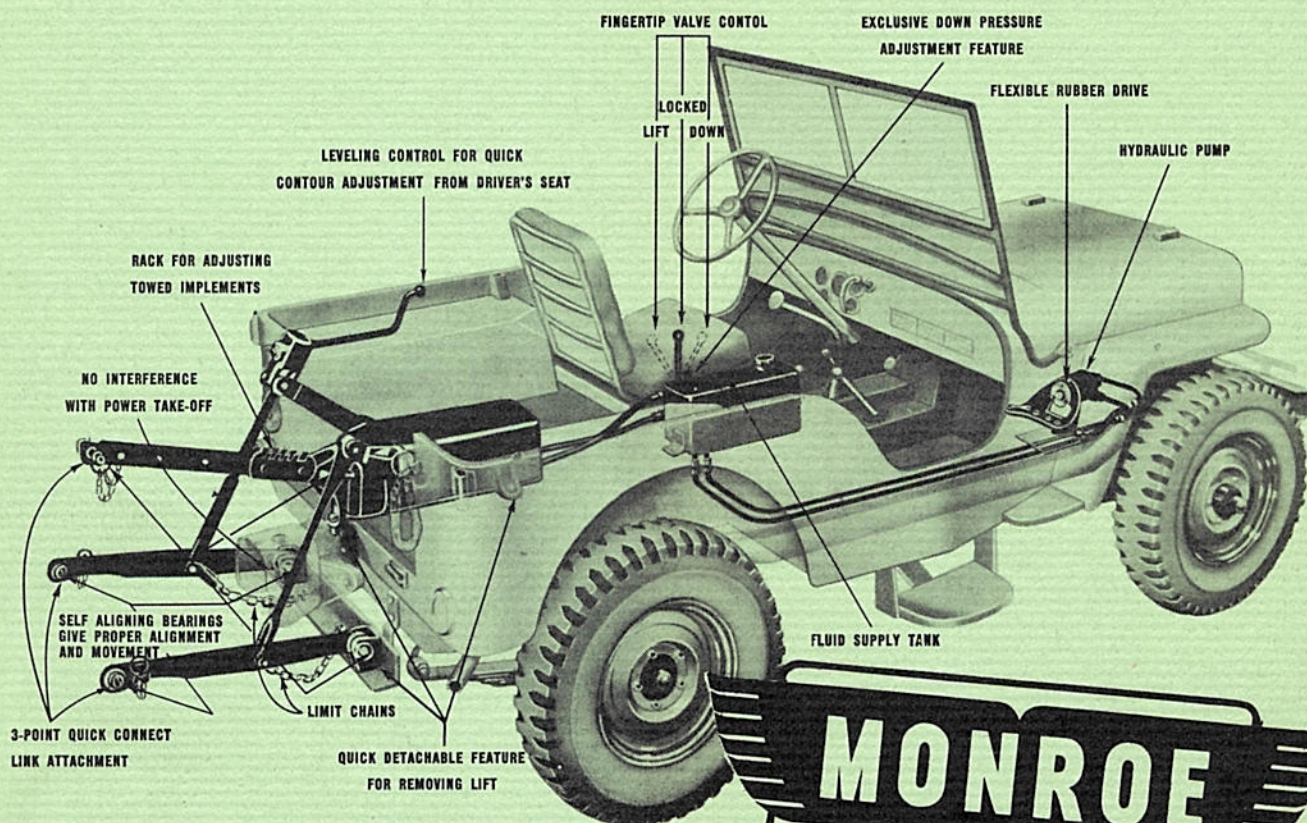
Newgren Forgy base moldboard plow (no landslide) with stabilizers.

THE NEWGREN COMPANY

Engineers and Distributors of Farm-Tested Implements
BUTLER, PENNSYLVANIA

MONROE HYDRAULIC LIFT KIT

Now... AT LESS THAN $\frac{1}{5}$ th THE COST
OF A NEW TRACTOR
200,000 **Jeep** OWNERS
CAN GIVE THEIR JEEPS
100% FARM UTILITY



MONROE

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



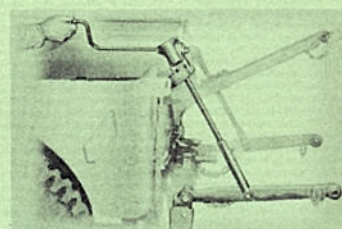
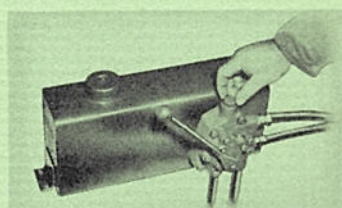
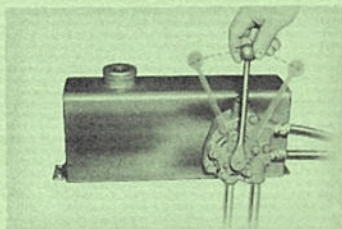
One minute is all that is required to attach or detach implements to the three lift arms which have ball sockets at each end. This three-point hitch gives the Jeep full usefulness as a farm tractor with Newgren implements and other equipment having similar attachment.

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 Scissors
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

MAHL EQUIPMENT CO.

SOLD
EXCLUSIVELY
THROUGH
WILLYS DISTRIBUTORS
AND DEALERS

A DIVISION OF
STANDARD IRON & WIRE WORKS, Inc.
2930 NORTH 2nd STREET
MINNEAPOLIS 11, MINNESOTA
"QUALITY PRODUCTS SINCE 1930"

WRITE FOR
FURTHER
INFORMATION
AND
LITERATURE

WILLYS-OVERLAND EQUIPMENT BOOK

THE HYDRAULIC BALANCE AND HOW IT WORKS

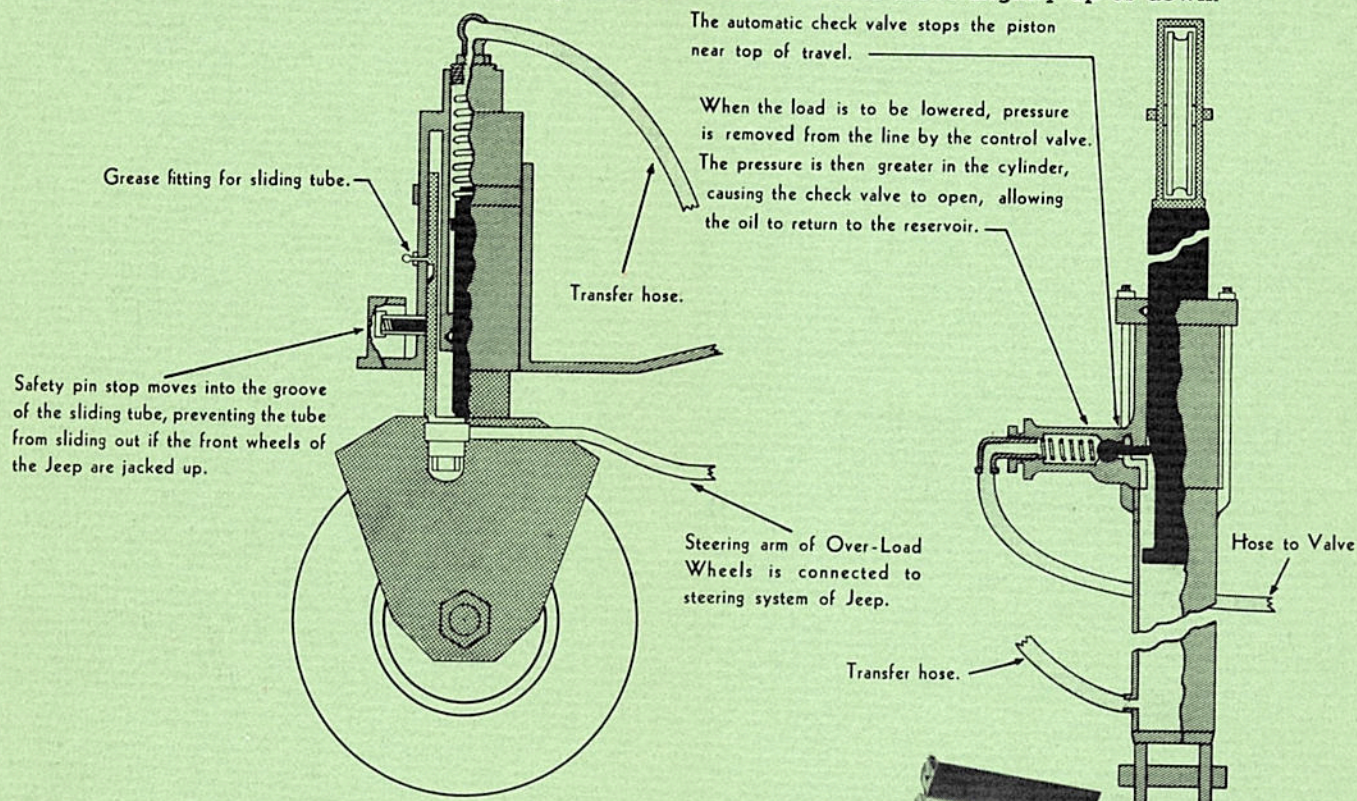
This Patented Hydraulic Balance is designed to take the excessive weight and strain from the front axle of the Jeep and transfer it to the Over-Load Wheels.

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.

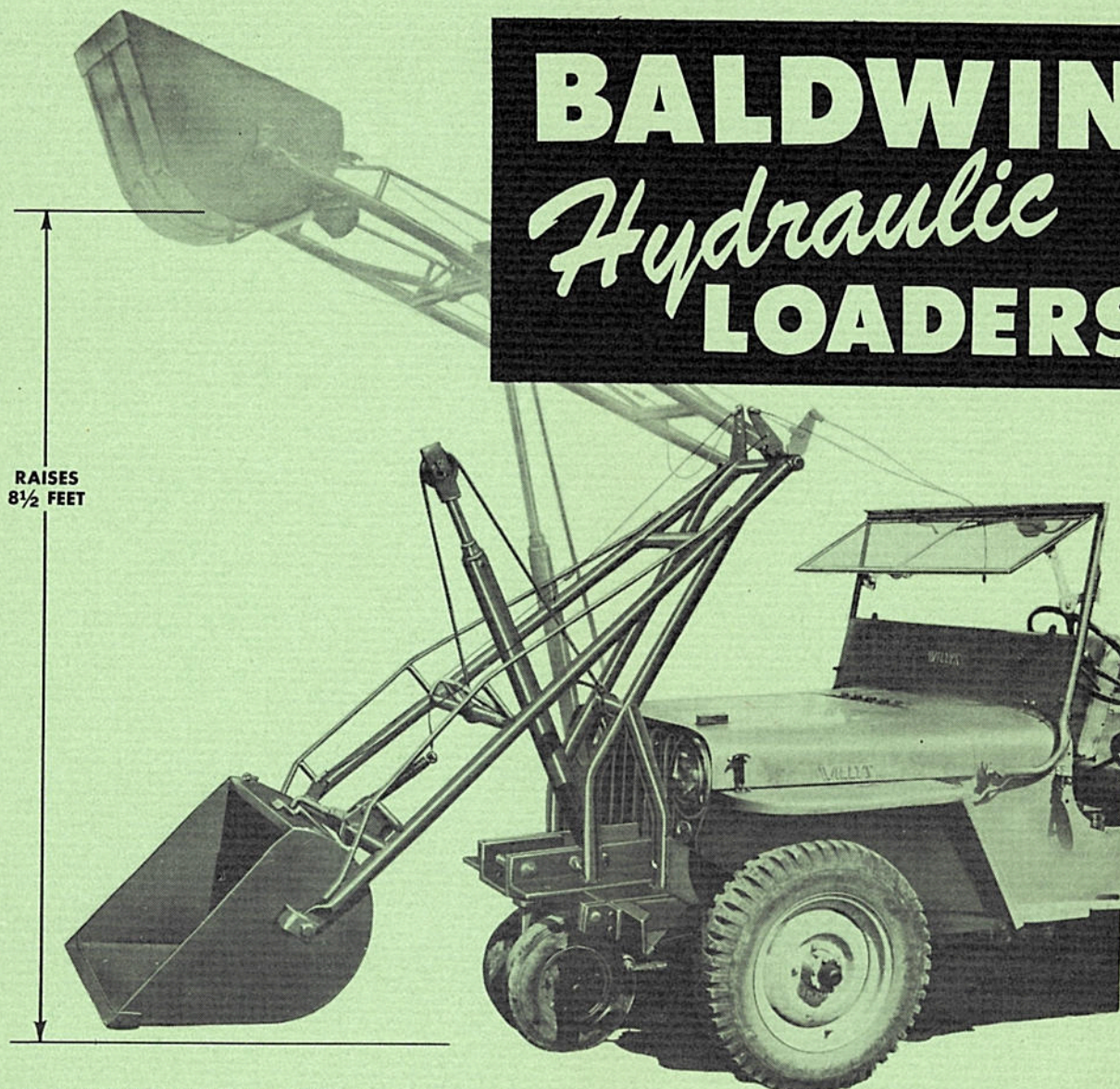
By removing the sand plate the bucket can be used as a manure fork.

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

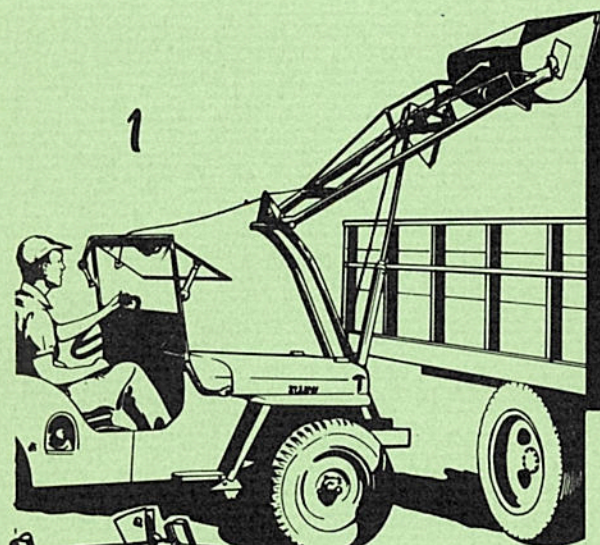
vehicle. Almost momentarily the scooping unit and hydraulic ram can be left behind and the caster dolly retracted. The scoop, holding about six cubic feet, is lifted 8½ feet and dumped in a few seconds and automatically swings back to loading position.

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

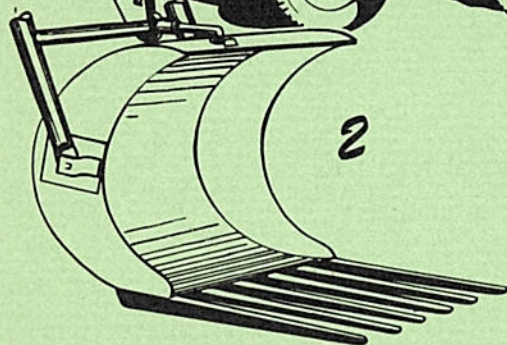
1440 BARWISE • WICHITA, KANSAS



BALDWIN

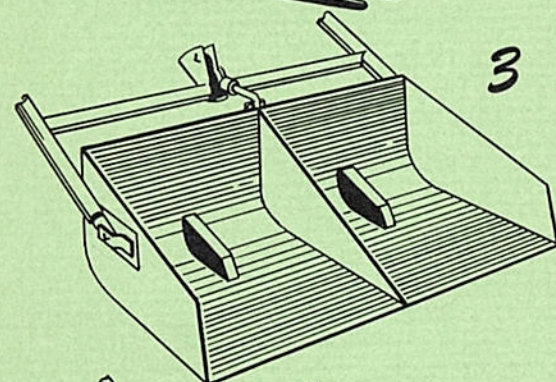
Accessories

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

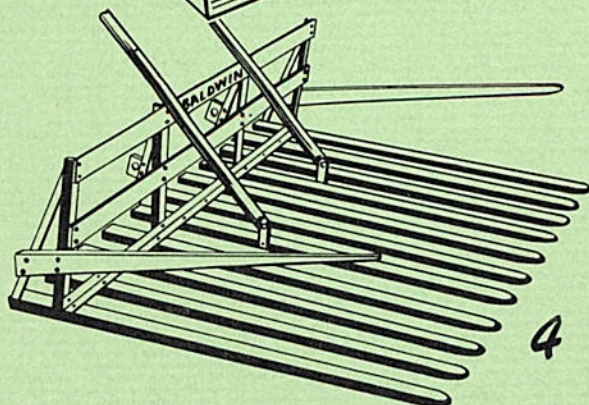


1. *Indicating* relative height of scoop in dumping position.

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 MOWER

POWER

**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.

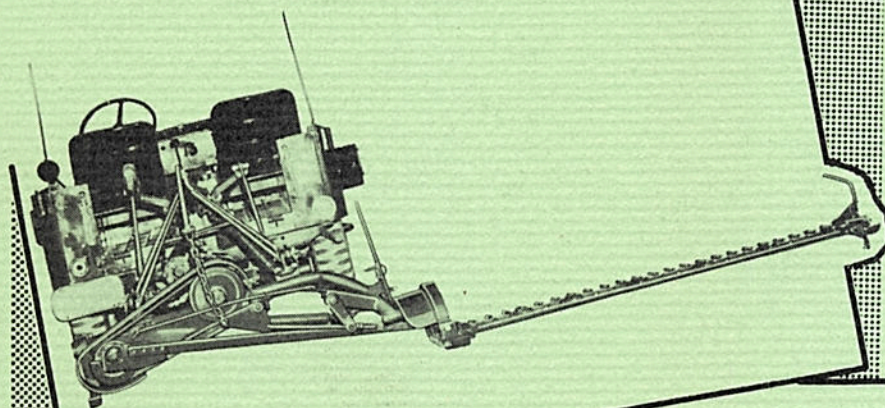
NEWTON

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.

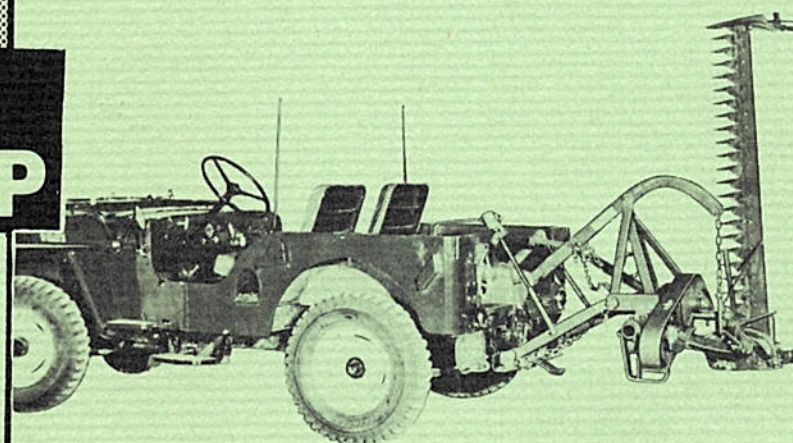
Pitman: Selected hardwood.

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

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

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

K & 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.

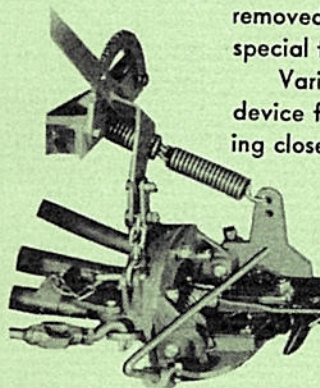


At the same time the mower bar is operating from the center power take-off on the Jeep, the rear power take-off can be used to operate a side rake or loader, along with the mower.

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.

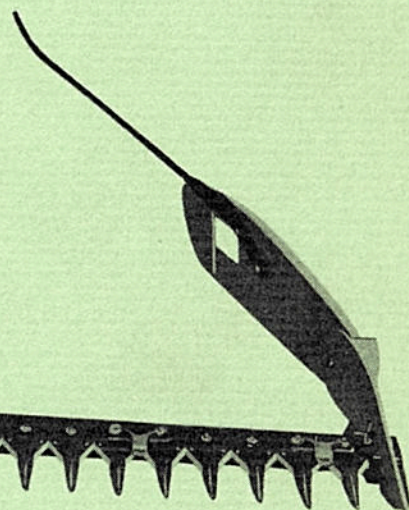


In the manufacture of the K & K Mower Bar only the finest materials are used—metals that have been tested for toughness and durability. Precision bearings of the best quality are carefully selected for their proper usage.

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.

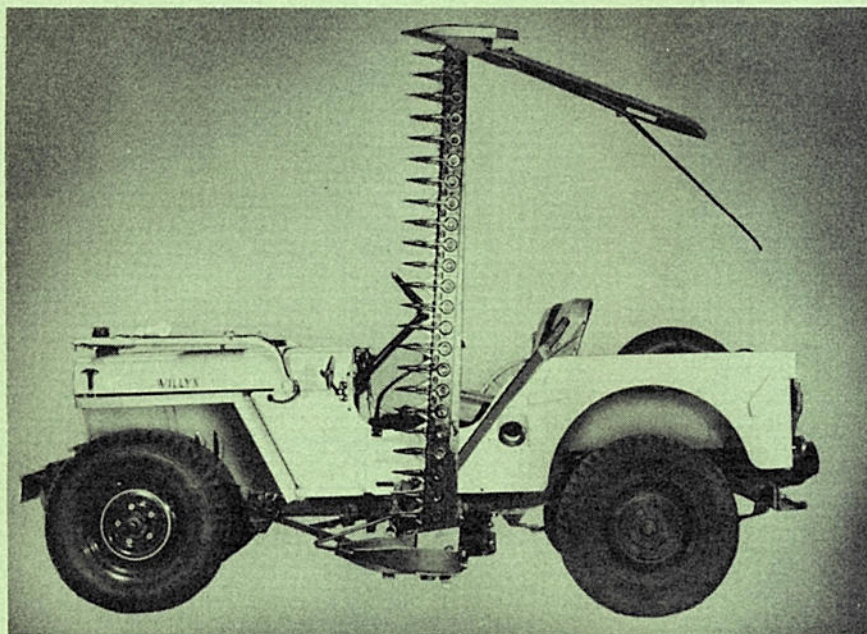


K AND K MANUFACTURING CO.

1134 BROADWAY

DENVER, COLORADO

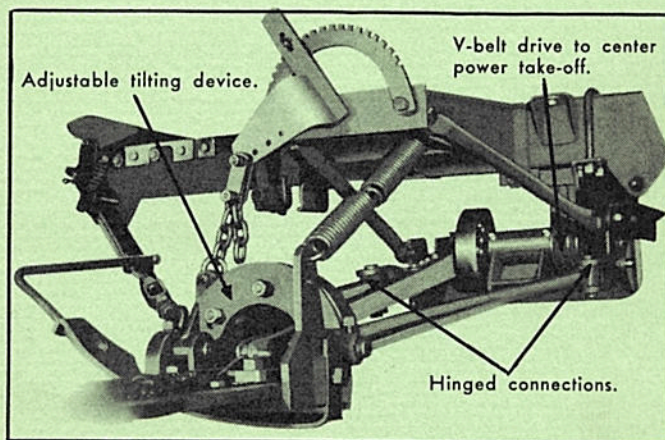
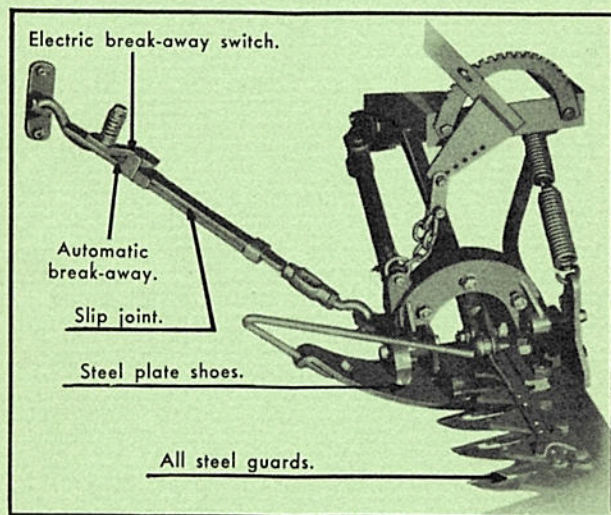
WILLYS-OVERLAND EQUIPMENT BOOK



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.

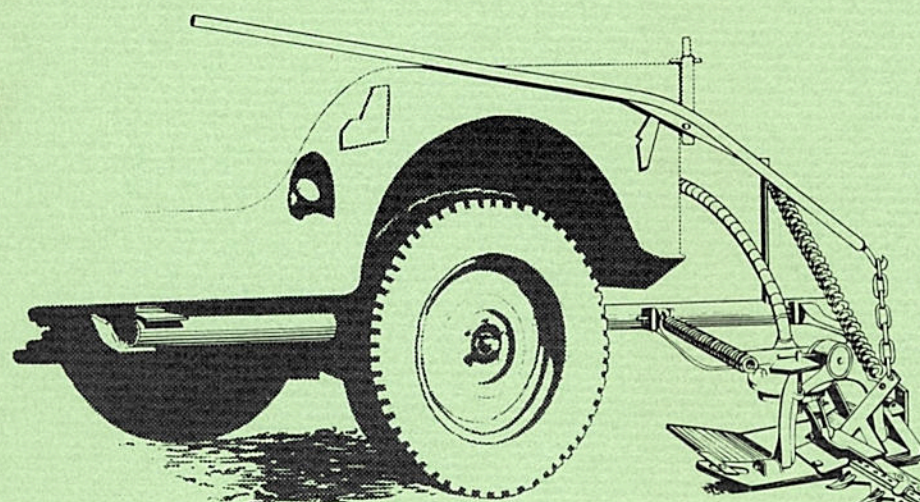
Everything has been done to make it easy for you to mow better, faster, and more efficiently.

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.

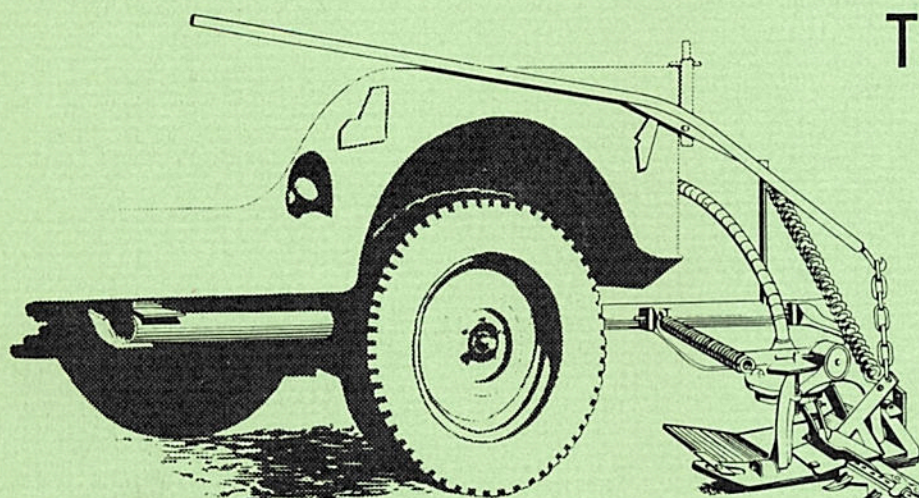
MAKES EVERY FARMER USING A HORSE-DRAWN MOWER A GOOD PROSPECT FOR A JEEP SALE

(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.

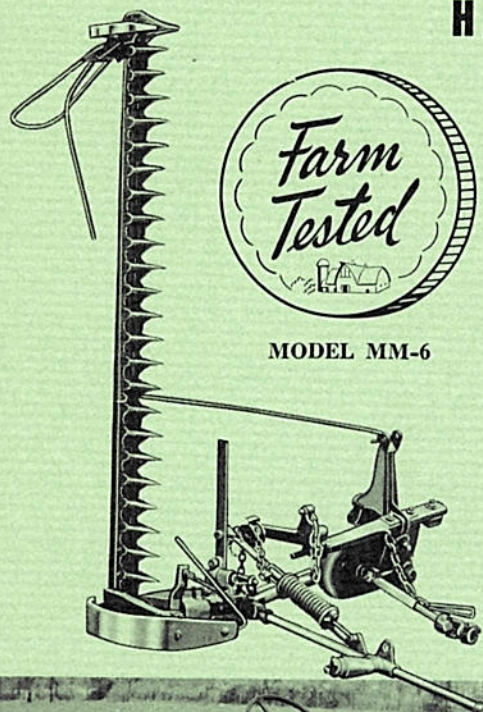
**INCREASE YOUR EQUIPMENT AND JEEP SALES
BY FEATURING THE GRADE A LEFT-HAND MOWER**

WRITE FOR PRICES AND DEALER DISCOUNTS

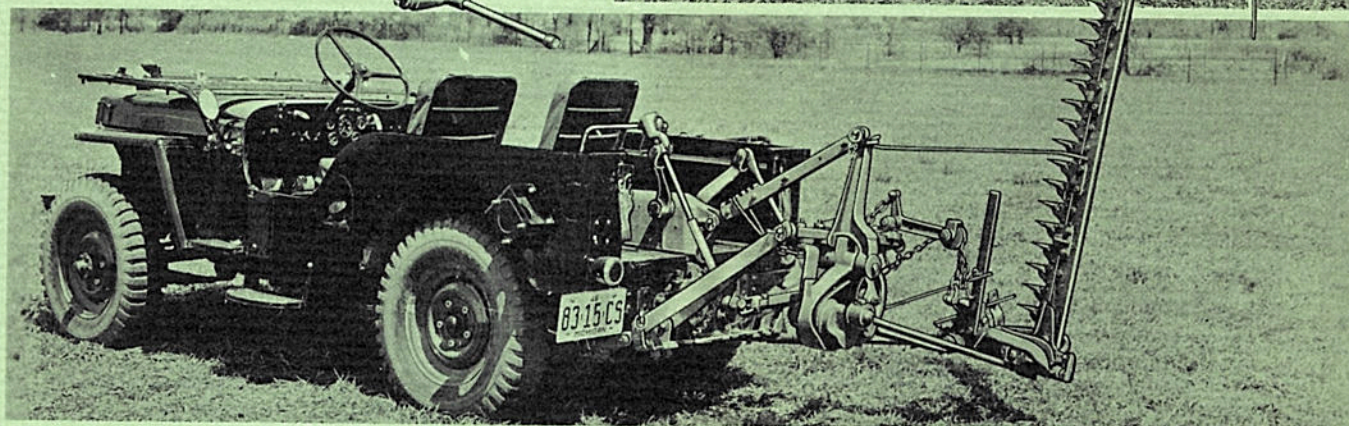
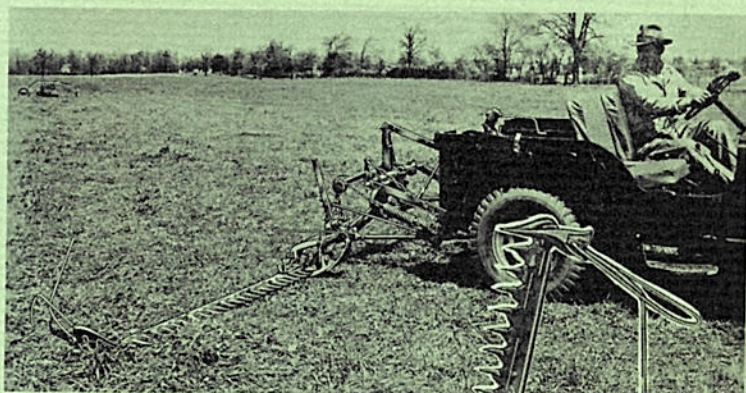
Grade A Equipment Corp., Saugus, Massachusetts

NEWGREN LIFT-TYPE MOWER

HAY OR WEEDS OR GRASS—HERE'S
FASTER CUTTING
AT YOUR FINGERTIPS



MODEL MM-6



AUTOMATIC SAFETY BREAKAWAY

You'll get the hay crop down faster . . . you'll cut weeds or grass or brush easier . . . you'll get in and out of corners and cut around trees or along fences more efficiently with this Newgren lift-type mower, farm-tested for the Jeep equipped with the Monroe Hydraulic Lift.

If the cutter bar strikes a hidden obstruction in the field, an automatic safety breakaway releases the bar and it swings backward—no damage is done. To put the bar back into operating position, simply back up the Jeep until the bar engages. And when you want to raise the bar to pass over a gully, for example, a finger touch on the lift control will do the trick. Lowering is just as easy.

NEWGREN MOWER AVAILABLE IN
6-ft. or 7-ft. CUTTER BAR LENGTHS.



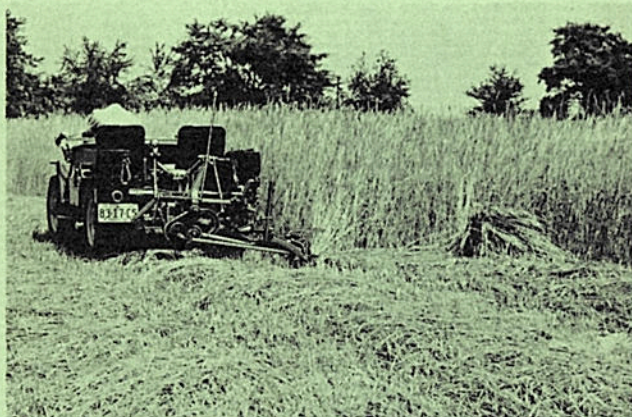
Farm Implements Especially "Tailored"
for Use with the Jeep Equipped with
the Monroe Hydraulic Lift

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

THE NEWGREN COMPANY • BUTLER, PA.

JEEP AGILITY WITH LIFT CONTROL

Gives You—



- Full fingertip operation of the mower without awkward, tedious adjustments—raising and lowering is hydraulically controlled with the Monroe Lift.
- Clean, efficient cutting on the straight-away and with square corners.
- Fast transportation to and from the field, and 3-point attachment or detachment that is accomplished in a few minutes.
- Dependable operation of the mower bar through connection with the power take-off of the Jeep.
- Efficiency on hillsides or in pastures—you have the advantages of Jeep four-wheel-drive traction and safety.
- Controlled cutting height—also at your fingertips with the Monroe Hydraulic Lift.
- Sold exclusively through Willys-Overland distributors and dealers, assuring prompt service and easily obtainable parts.

ADDED FEATURES Knife sections and clips of highest quality, heat treated steel. Timken bearings—main and Pitman crank. Steel Pitman ball joint. Iron shoes and guards. Pressure lubrication fittings throughout. Weights: 6-ft. bar, 453 pounds; 7-ft. bar, 463 pounds.

Photos show Newgren mower in operation, cutting hay. Note clean, straight cuts and the obvious ease with which the Jeep, Monroe Lift, and Newgren mower do the job. Operator sits in comfort and businesslike mowing is at his fingertips.

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

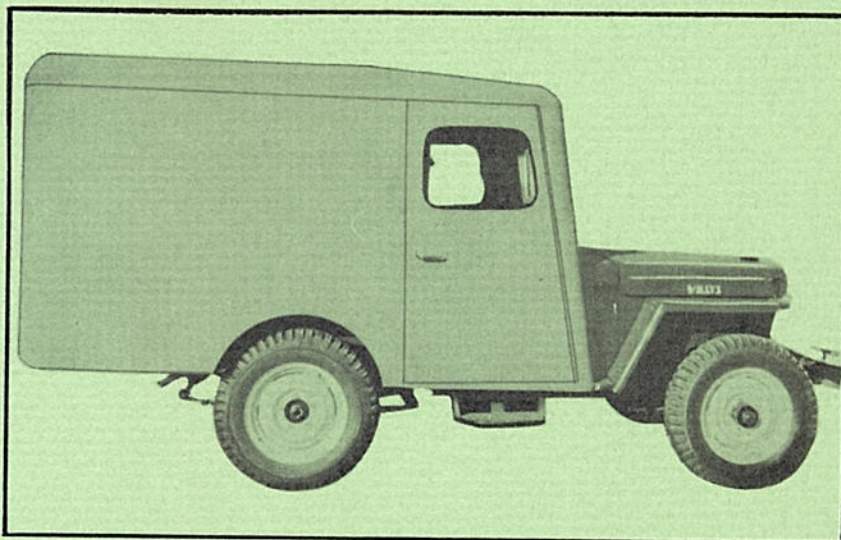
THE NEWGREN COMPANY

Engineers and Distributors of Farm-Tested Implements
BUTLER, PENNSYLVANIA

Now! An ALL-STEEL 'Jeep' Panel Body!

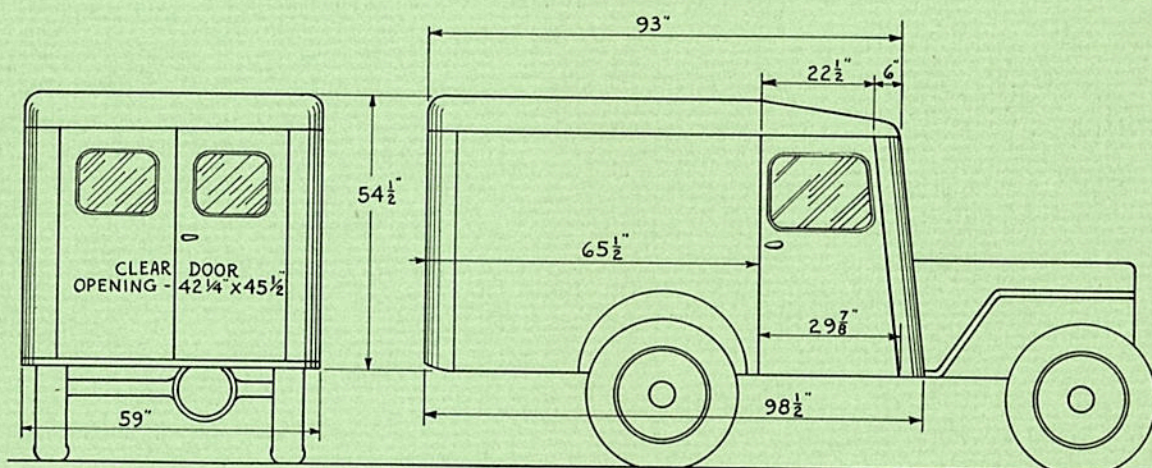
STREAMLINED — IT COMES KNOCKED-DOWN IN 5 SECTIONS ...CAN BE ASSEMBLED IN ONLY 3 HOURS!

The most important feature of this panel delivery body is its ruggedness made possible by the use of heavy gauge steel throughout. It is pre-fabricated in 5 sections at the factory and can be bolted together and completely assembled in about three hours. Side sections, including both front and rear doors, have been welded to make a single unit, thus assuring greatest strength at all points of stress. Equipped with spacious shelf in front of driver it also features full-opening rolling windows in both front doors. Body is primed at factory ready for customer's own color. It is shipped in a sturdy crate.



FEATURES

All body panels made of 20 ga. sheet steel. SUPPORTING ribs 16 ga. steel. STEEL corners 18 ga. STEEL extension of body 24 inches. WINDOW regulators and hardware made by Hanson. MOUNTED on 'Jeep' in three hours and DISMOUNTED in one-half hour. WATERTIGHT overlapping seams prevent leakage. STURDY-BUILT to body and frame for longest life — it becomes integral part of 'Jeep.' SIDE windows roll up and down. PAYLOAD space totals 92 cubic feet. LARGE rear doors with full-length hinges allow for easy loading and unloading.

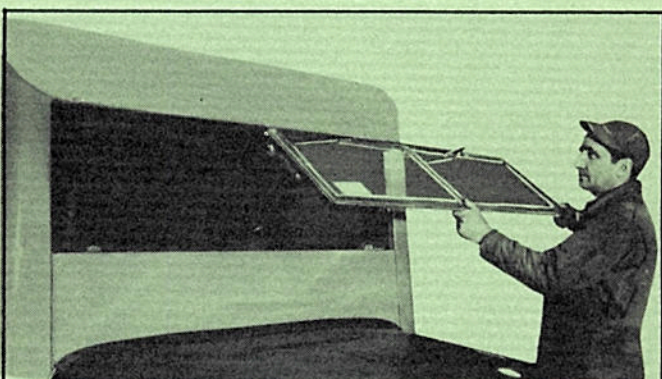
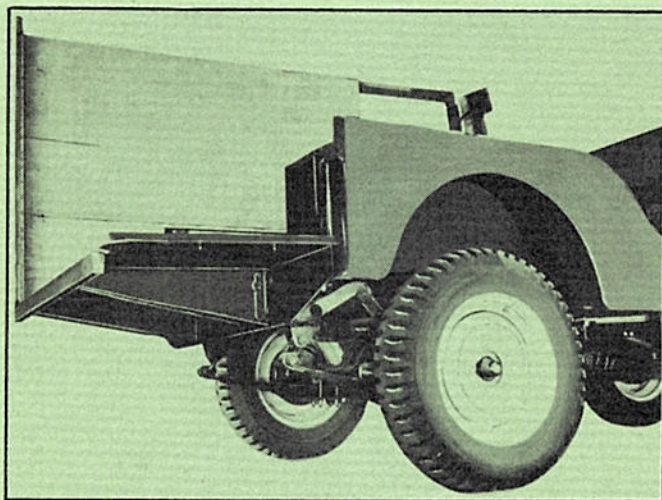


S & B CORPORATION

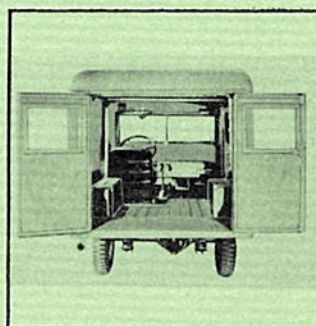
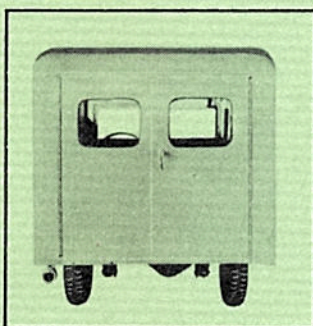
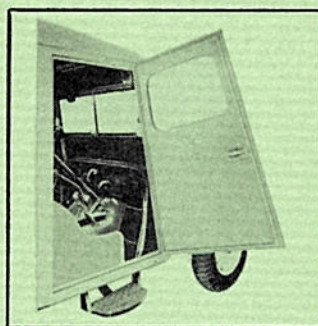
112-10 ROCKAWAY BLVD., OZONE PARK 16, N. Y.

WILLYS-OVERLAND EQUIPMENT BOOK

*Here's how EASY it is to install the ALL-STEEL
S & B Panel Delivery Body on the Universal 'Jeep'*



DESIGNED FOR GREATEST CONVENIENCE, MAXIMUM EFFICIENCY



All-steel radius post •

Steel doors and locks, front and rear •

Steel roof

Steel $\frac{5}{16}$ " retainer nuts spot-welded to body •

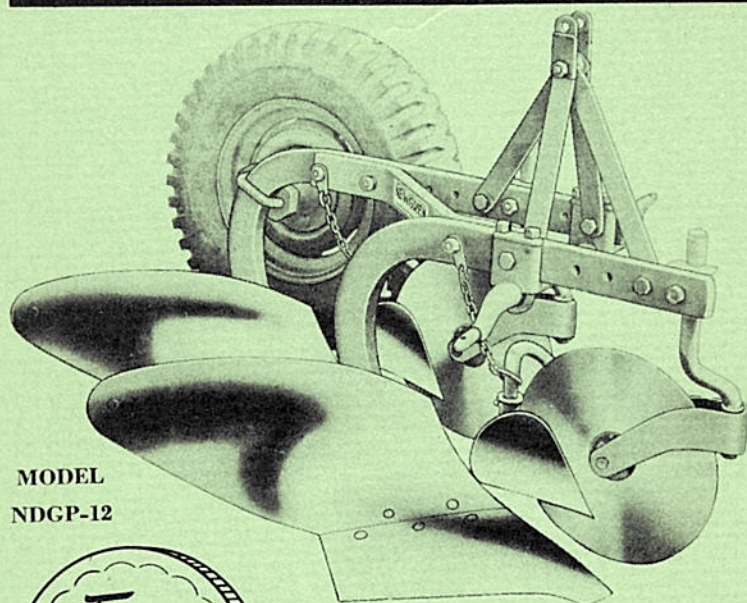
Side-assembly includes post, door side and back

FOR ADDITIONAL INFORMATION WRITE

S & B CORPORATION

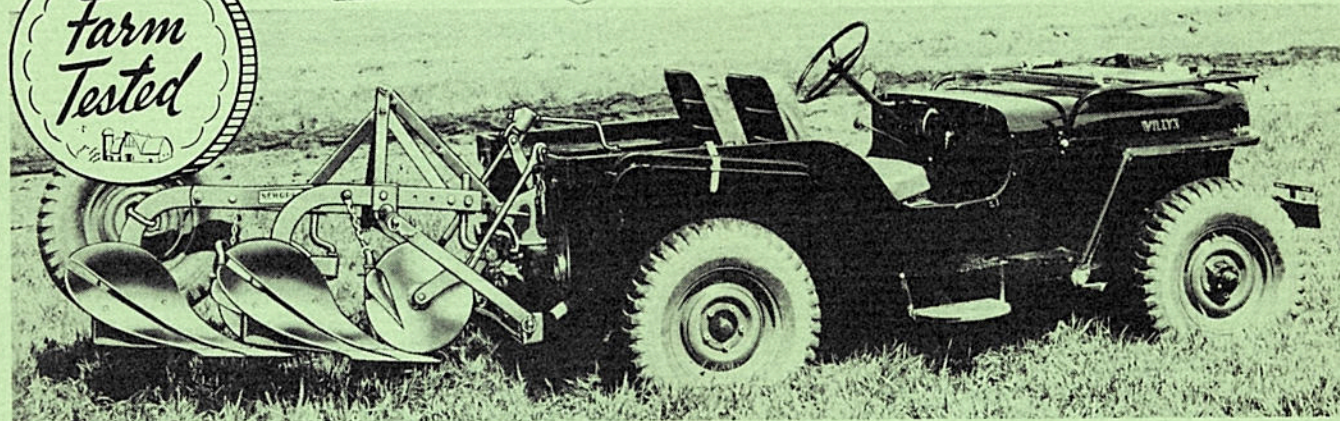
112-10 ROCKAWAY BLVD., OZONE PARK 16, N. Y.

NEWGREN 2 - BOTTOM 12 - IN. MOLDBOARD PLOW



MODEL
NDGP-12

GENERAL PURPOSE BASE
FOR
FASTER, CLEANER
PLOWING WITH
ONE ADJUSTMENT



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

A NEW PLOWING EXPERIENCE

Take your Jeep with its four-wheel-drive traction and easy, fast handling. Equip it with a Monroe Hydraulic Lift to give you three-point hitch, hydraulic implement operation, finger-touch control and adjustable down pressure.

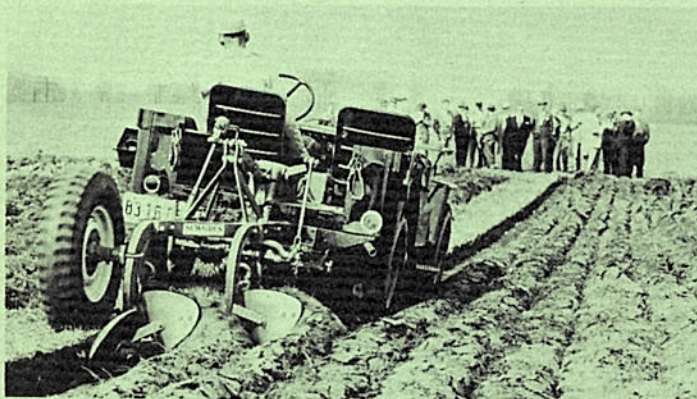
Then, add a Newgren double-bottom 12-inch plow with a general purpose base, and you have a truly amazing unit that will do a fast, clean, efficient plowing job in any size field with normal soil conditions.

After opening headland furrows, you make but one leveling adjustment, and you are ready for a complete plowing job that can be handled by any farmer. And when your plowing is finished, your Monroe Lift-equipped Jeep is ready for all other farm operations—and for 365-day usefulness in general transportation and hauling.

PLOW SPECIFICATIONS—Carefully engineered and farm-tested. Three-point hitch to Monroe Hydraulic Lift. Mounting and detaching in one minute. Plow frame has high carbon, steel-forged beams and high carbon struts. Polished, tempered, soft center steel moldboards and crucible steel shares. Rolling coulter and jointer combination with 15-in. coulter disc of heat treated high carbon steel. Pressed steel furrow wheel mounted on rear landslide. Clearance, share points to beams, 21 inches. Pressure grease gun fittings throughout. Sturdy spindle type frame mounting for Jeep spare wheel and tire used as depth wheel affords easy adjustment on plow beam (mounting adapter at slight extra cost). Weight of plow complete, 430 pounds. Accessories also available.

THE NEWGREN COMPANY • BUTLER, PA.

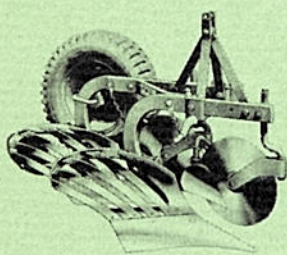
"THIS IS REAL PLOWING"



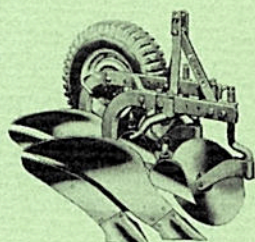
First step in closing furrow with Newgren double-bottom 12-in. moldboard plow with general purpose base.



Another example of the clean, fast plowing possible with the Monroe Lift-equipped Jeep and the Newgren plow.



Newgren double-bottom 12-in. moldboard plow with slat bases (Model NDSB-12).



Newgren double-bottom 14-in. moldboard plow with patented Forgy bases (Model NDF-14).

AND THIS IS WHY—

- Long moldboards provide faster, cleaner plowing with proper turning for sod turf, such as clover, timothy and alfalfa.
- Fingertouch controls of Monroe Lift raise plow for maneuvering and "close quarter" operation, and lower plow to proper operating position in ground. Handy leveling control.
- Monroe Lift has down pressure that is adjustable up to 500 pounds, giving the equivalent of that much more weight to plow, if needed.
- Use of Jeep spare wheel and tire as depth wheel gives advantage of more wheel area and less ground pressure, keeps bearings out of dirt and operates at slower speeds with less bearing wear.
- High clearance of plow assures clean plowing in heavy trash or tall weeds. Hydraulic lift Jeep plow operates in corners and close to fence rows.
- Gives to every farmer the benefit of results developed in strenuous, continuous tests on 6,000-acre Newgren-Monroe farms in Michigan and Georgia where countless soil conditions exist.

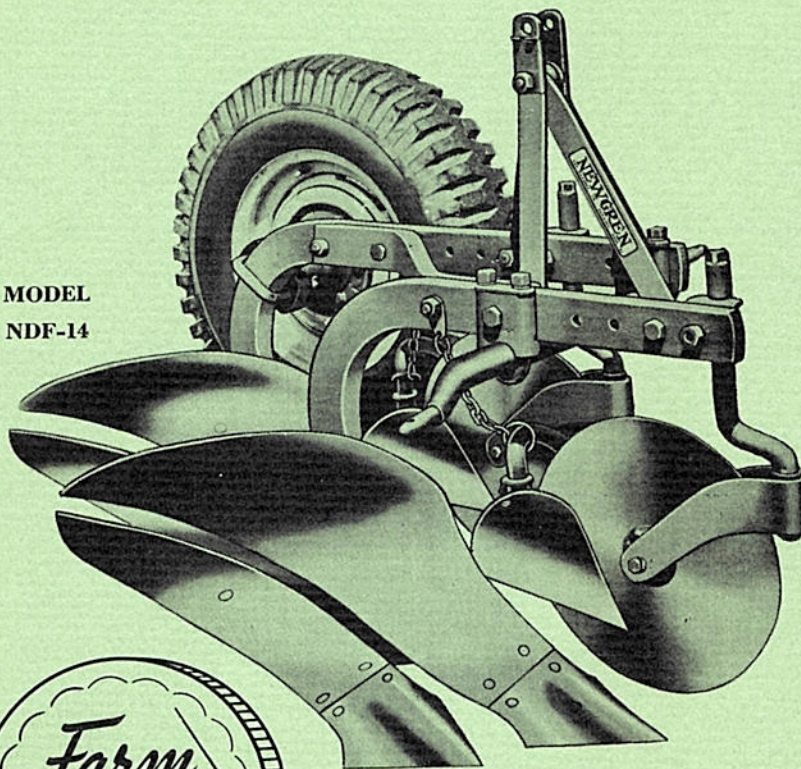
The Newgren Company reserves the right to change specifications and design without incurring obligation.

THE NEWGREN COMPANY

Engineers and Distributors of Farm-Tested Implements

BUTLER, PENNSYLVANIA

NEWGREN 2 - BOTTOM 14 - IN. MOLDBOARD PLOW

PATENTED FORGY BASE
TAKES FAR LESS PULL ★MODEL
NDF-14

With two points a bit like cultivator points on each bottom, the Forgy patented base is one of the lightest draft plows ever built. Exclusive with Newgren, this plow takes far less draw bar pull than plows of comparable sizes with ordinary bases, for most soil conditions.

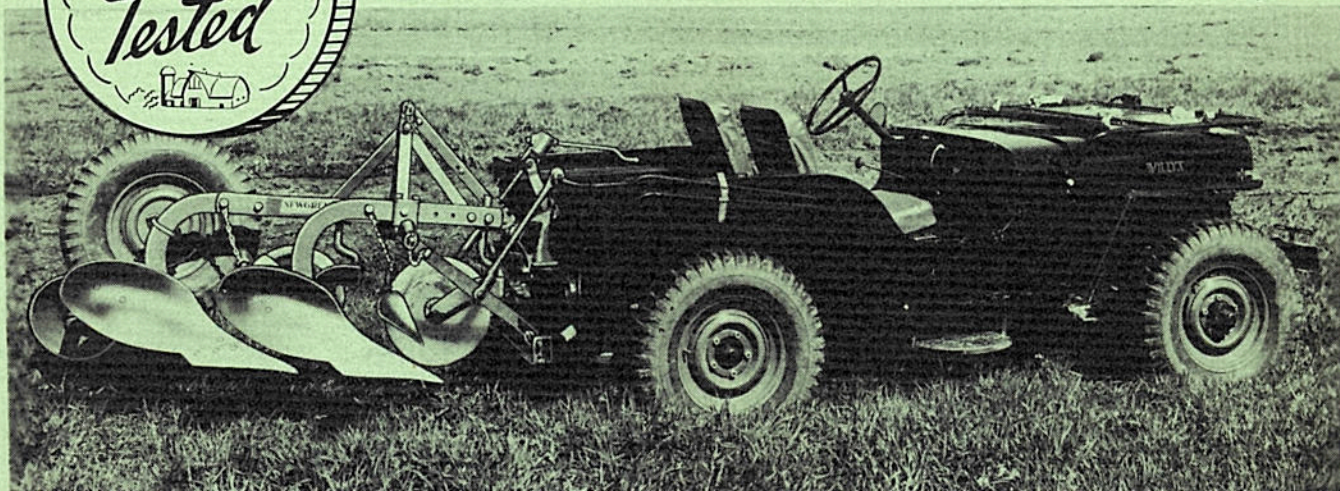
Packed with many other features, the Forgy plow has been called the greatest improvement in basic plow design in a 100 years. Used with the Jeep equipped with the Monroe Hydraulic Lift, it gives you plowing advantages you've never enjoyed with any equipment, especially in dry, hard, rock-free soils.

**According to user reports.*

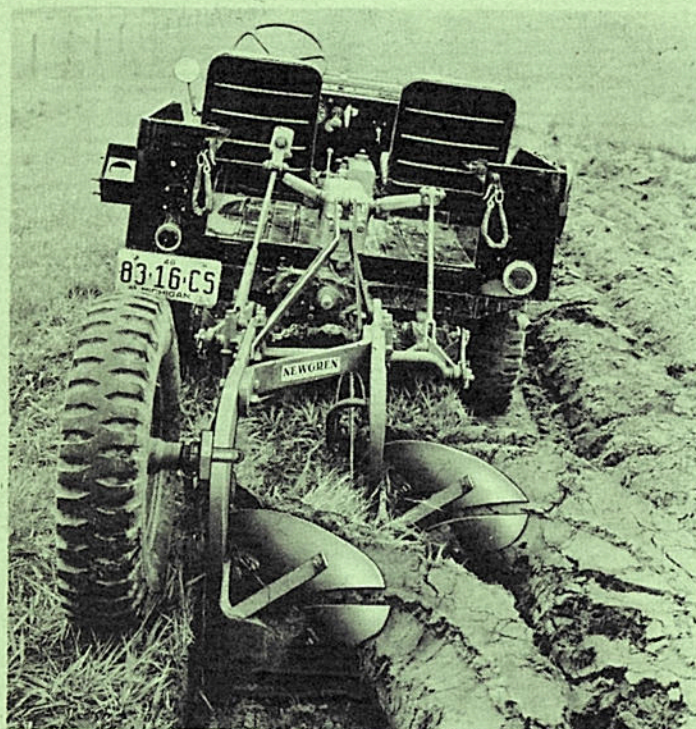


Farm Implements Especially "Tailored" for Use with the Jeep Equipped with the Monroe Hydraulic Lift

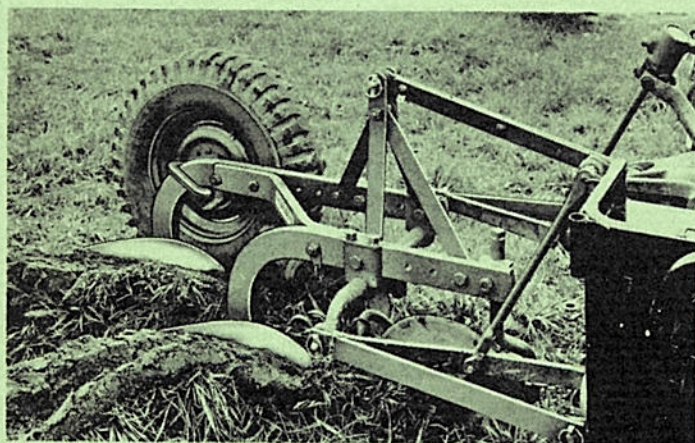
Newgren implements also may be used with tractors equipped with three-point hitch hydraulic systems



THE NEWGREN COMPANY • BUTLER, PA.



This is how the Newgren patented Forge base plow cuts a clean, uniform furrow and pulverizes the soil when used with the Jeep equipped with the Monroe Lift. Note loose plow sole.



Another view of the Newgren patented Forge base plow in action in the field.

A CONTEST WINNER

- Winner of national plowing contests, the Forge base is a patented base, that is exclusive with Newgren. There is no land-side and no furrow wheel and thus no side pressure on the furrow and fewer parts to wear out. Points are replaceable, and the two points cost less than usual plow share.

- The two sharp points on each bottom cut easily through dry, hard soil, requiring less power than standard bases with obvious savings in gas and oil. Excellent penetration and straight, clean, even furrows are obtained, and even when the points are worn and dull, the plow sole is loose and similar to the sole obtained in good disc plowing.

- Moldboards and points are made of highest quality soft center steel, fully tempered and polished and guaranteed to scour in the same manner as other moldboard plows. Double points and slotted moldboards give excellent pulverization in a wide variety of soils.

- Finger-touch controls of Monroe Lift raise plow for maneuvering and "close-quarter" operation, and lower plow to proper operating position in ground. Handy leveling control.

- Monroe Lift has available down pressure that is adjustable up to 500 pounds, giving the equivalent to that much more weight to plow, if needed.

- Use of Jeep spare wheel and tire as depth wheel gives advantage of more wheel area and less ground pressure, keeps bearings out of dirt and operates at slower speeds with less bearing wear.

- Gives to every farmer the benefit of results developed in strenuous, continuous tests on 6,000-acre Newgren-Monroe farms in Michigan and Georgia where countless soil conditions exist.

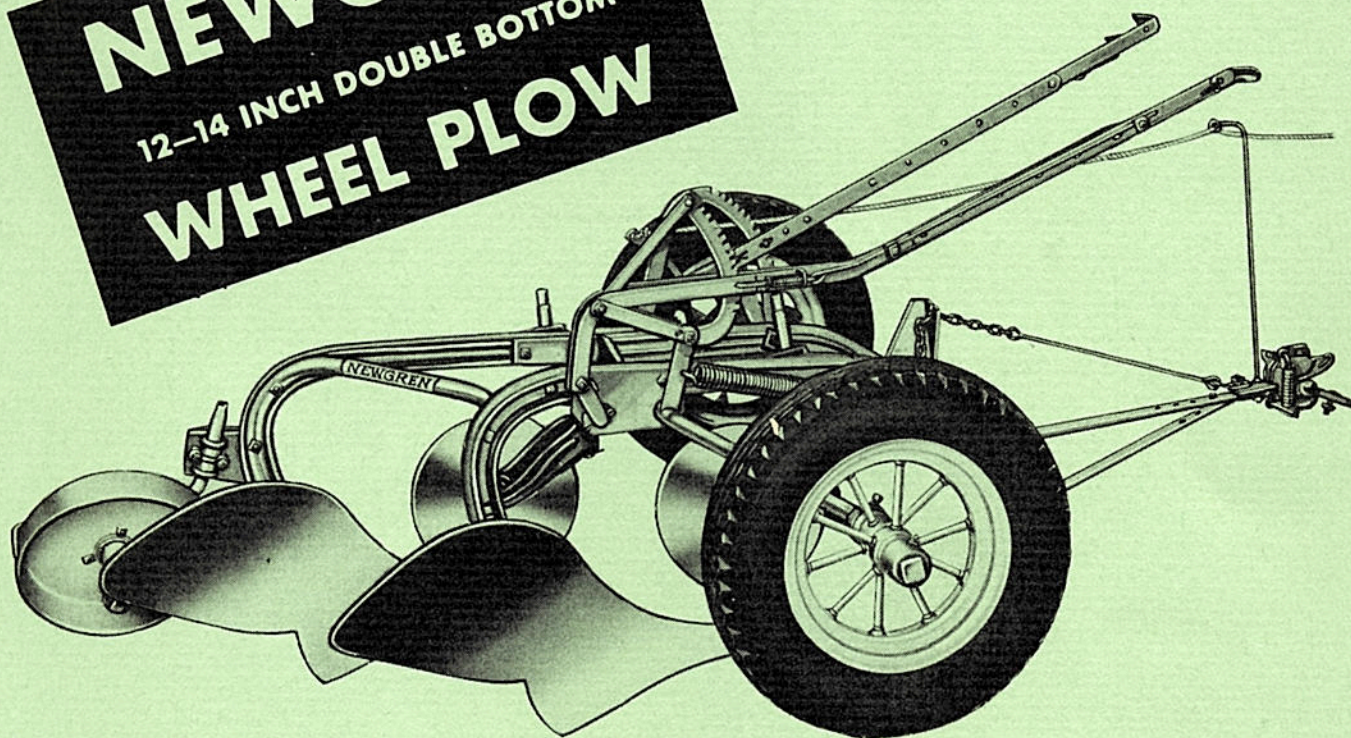
SPECIFICATIONS—Mounting and detaching to three-point hitch of Monroe Lift in one minute. Plow frame of high-carbon, steel forged beams and high carbon struts. Pressure grease gun fittings throughout. Sturdy spindle type frame mounting for Jeep spare wheel and tire used as depth wheel affords easy adjustment on plow beam (mounting adapter at slight extra cost). Plow weight, complete, 445 pounds. Accessories also available.

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

FORM 143-W

NEWGREN
12-14 INCH DOUBLE BOTTOM
WHEEL PLOWFOR USE WITH THE WILLYS JEEP
AND ALL TWO-PLOW TRACTORS**FEATURES THAT INSURE EXTRA VALUE**

STRONG CONSTRUCTION, the beams are heavy, made of high carbon steel with a heavy diagonal brace and strong cross braces. The frogs are heavy steel, strongly braced. The base and beam assembly is very strong and rigid.

SIMPLE CLUTCH, enclosed, dust proof, no springs inside the clutch box; minimum wear insuring years of service.

ALL TYPE PLOW BOTTOMS available with the Newgren wheel plows turn a perfect furrow and scour in the most difficult soil.

LARGE ROLLING LANDSIDE, easy to adjust, strong construction.

PERFECT WORK with any tractor. The hitch is provided with ample adjustment so the plow will do good work with any make tractor. The length of the levers can be adjusted so the levers are always convenient to operate.

SPRING TRIP HITCH, releases plow if an obstruction is encountered. Lift lever makes it easy to recouple.

ZIRK TYPE OILERS in coulter bearings and wheels.

THE NEWGREN COMPANY

Equipment Tailored For The Jeep

730 Phillips Avenue

Toledo 12, Ohio

WILLYS-OVERLAND EQUIPMENT BOOK

THE BOTTOMS are the turf and stubble general purpose type and do good work in plowing either stubble ground or sod. These mouldboards are especially designed for use in a wide variety of plowing jobs, at various plowing speeds. Also available with the Forgy Patented Bottoms.

THE SHARES AND MOULDBOARDS are made of the best soft center steel, carefully tempered and polished; an extra piece of hard steel is welded on the shin of the mouldboard and the point of the share; this adds greatly to the length of life of both the mouldboard and share. The heavy steel frogs that are well braced give rigidity to the plow bottoms.

THE POWER LIFT is simple in construction. Half a turn of the wheel raises or lowers the plow. The clutch roller engages the clutch box only when the plow is raised

or lowered; at all other times the land wheel turns free on the axle.

THE COULTER BEARINGS are chilled to insure long wear. The hub bolt screws into the coultter yoke, and the nut on the bolt acts as a lock nut; any slight wear that may develop can be taken up by tightening this bolt. Each coultter bearing is fitted with pressure oilers.

THE REAR WHEEL is pan shaped and does not gather trash. It is adjustable and lessens the draft by removing the pressure on the landside. This wheel raises off the ground, with the bottoms so the plow can be backed the same as a two wheel trailer.

SPRING TRIP RELEASE, this hitch protects the plow and tractor by releasing the plow when the plow strikes an obstruction. The lap ring supplied fits the draw bar on practically all make tractors.

SPECIFICATIONS

(Subject to Change)

SIZE: 12-14 inch general purpose, turf and stubble. 14 inch Forgy base.

BOTTOM: General purpose, turf and stubble, mouldboard punched for extension. Forgy Plow Bottom.

BEAM: Heavy "I" beam stock, high carbon steel, well braced, 22 inch clearance under beam.

AXLES: Double axle construction, 1 1/2 inch diameter, high carbon steel.

WHEELS: Drop center rim for 6:00 x 16" Rubber Tires (tires not included as regular equipment). Steel wheels 28", 3 1/2" tires punched for lug bolts. Rear wheel 16" pressed steel, pan shaped, rigid construction, raises with the bottoms. Removable boxes in all wheels.

CLUTCH: Dust-proof, operated by trip rope from seat of tractor.

ROLLING COULTERS: Blades 15 inch, standards 1 1/4", chilled bearings, adjustable to take up wear.

JOINTERS: Combination can be supplied as an extra.

HITCH: Adjustable with side-hill landing lever and spring trip release as regular equipment.

LEVERS: Adjustable in length, 16 inch adjustment in 4" settings.

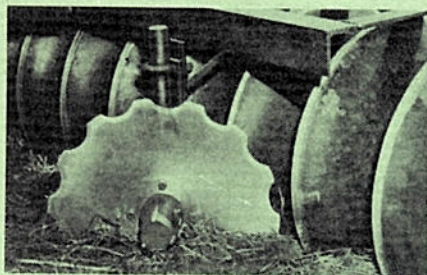
OILING: Wheels, coultter and bearing equipped with zirk fittings for pressure oiling.

ADDITIONAL EQUIPMENT Combination jointers for coultters; mouldboard extensions; 6:00 x 16" rubber tires and tubes; long rear landside with heavy cast heel in place of rear wheel.

SHIPPING WEIGHT: 12" and 14", 660 pounds.

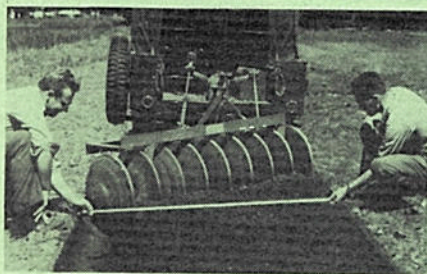
*When ordering specify size
and type of bases*

THE NEWGREN COMPANY
730 Phillips Ave. Toledo 12, Ohio



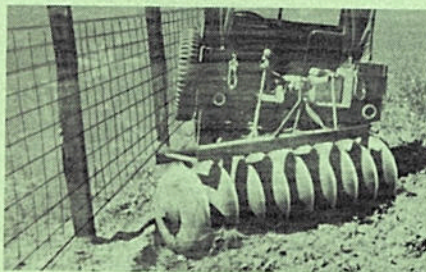
Positive Depth Control

Operating on a three point hydraulic system, the "9" gives you positive depth control from 1 to 6 inches.



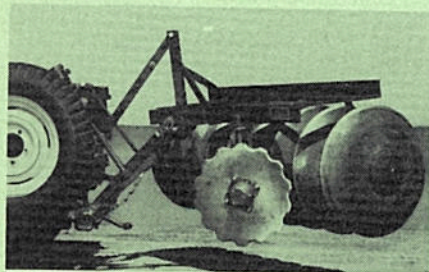
Cultivates More Land

The "9" cuts a five foot swath — a lot of plowing — and does a better job. Plows up to 20 acres in 10 hours.



For Hard-to-Get-at Places.

You put more land into cultivation with the "9" — you can plow to within 4 inches of obstructions.

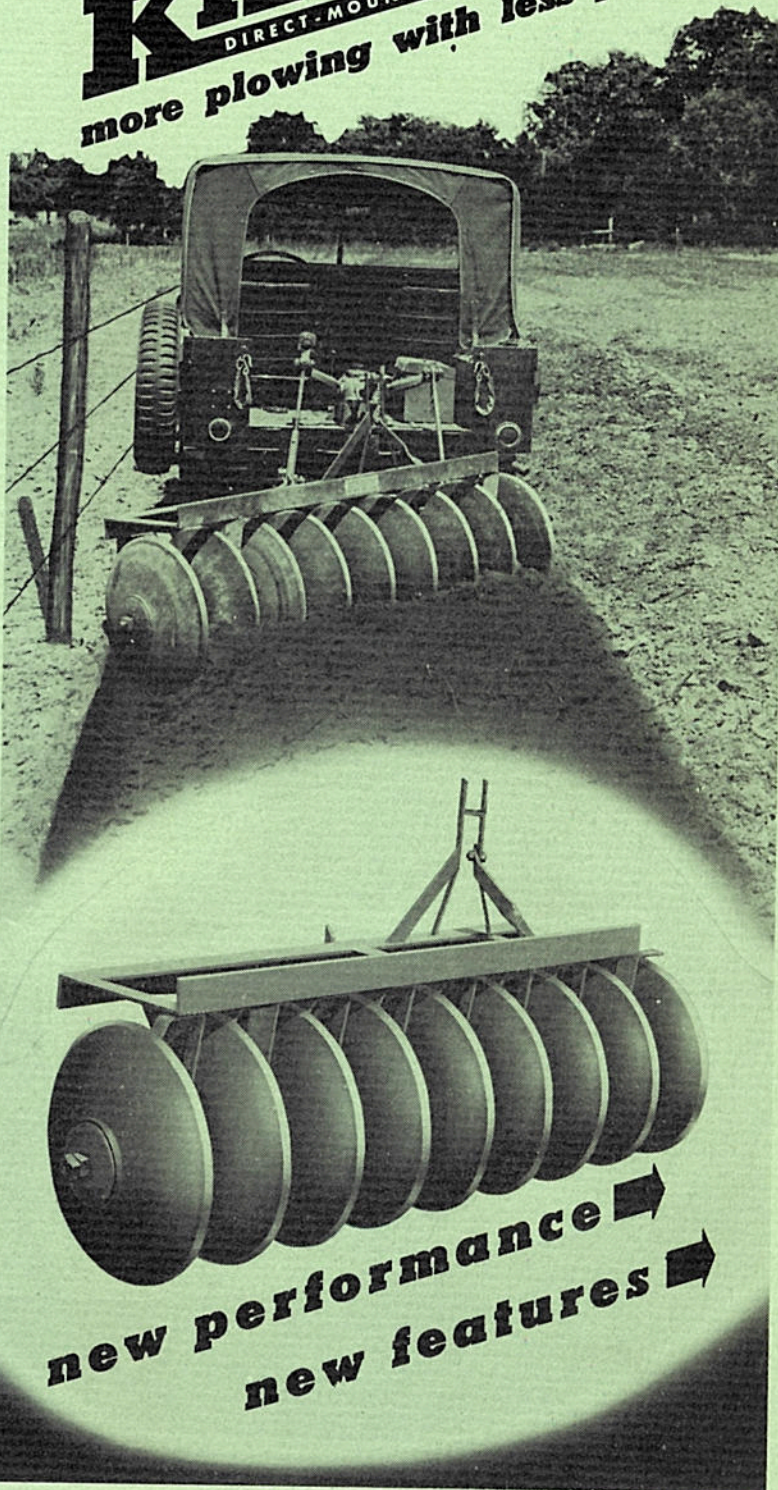


Good Road Clearance

The "9" is completely carried by the 'Jeep' to eliminate wheels. It gives you a 10 inch road clearance.

KRAUSE PLOW CORPORATION, HUTCHINSON, KANSAS

For the Jeep "9"
KRAUSE
 DIRECT-MOUNTED PLOW
 more plowing with less power



new performance ➡
new features ➡

WILLYS-OVERLAND EQUIPMENT BOOK

The pioneer one-way builder offers, you the handy

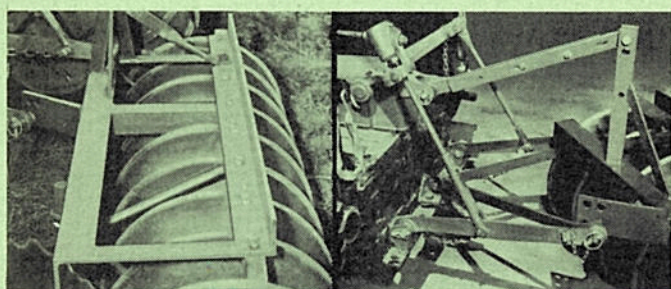
Here's a small plow that does a man-sized job. Cutting a 5 foot swath, you can plow up to 20 acres a day with the Krause "9." You can actually gain acreage by easily getting into corners and other out-of-the-way places, putting them back into cultivation. Yes, the Krause "9" is the answer to a lot of plowing problems.

The "9" has a sturdy welded frame of 3x3 angle members cross braced to withstand all loads imposed on a one-way.

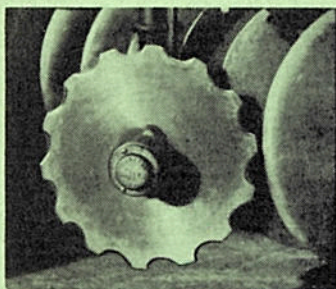
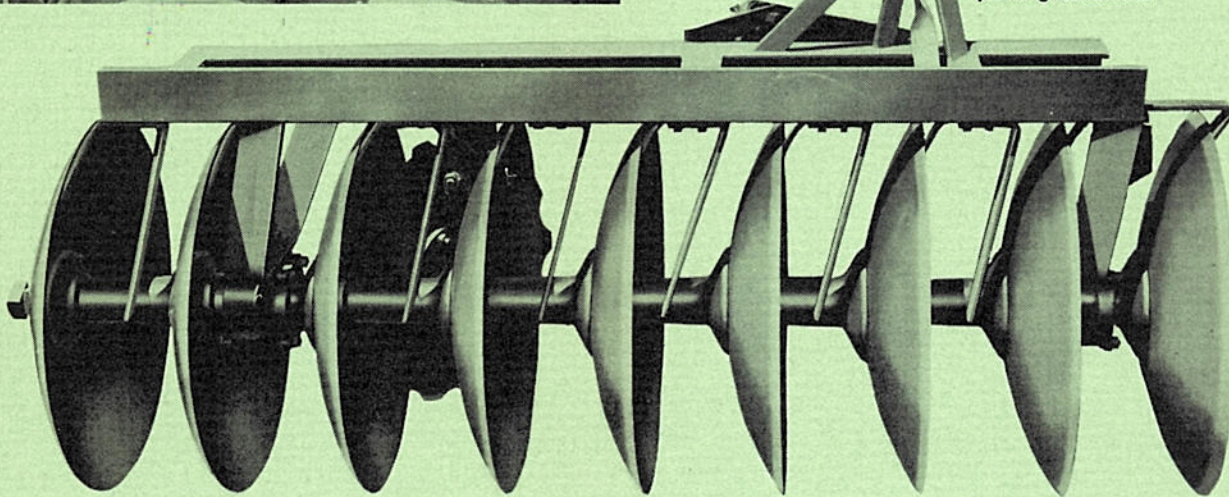
The "9" attaches directly and easily to the 3 point hydraulic hitch of the Jeep. Gives positive depth control.

KRAUSE "9" DIRECT-MOUNTED PLOW

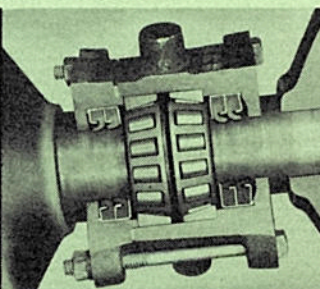
... designed to operate on the 3 point hydraulic hitch of the Willys-Overland Jeep



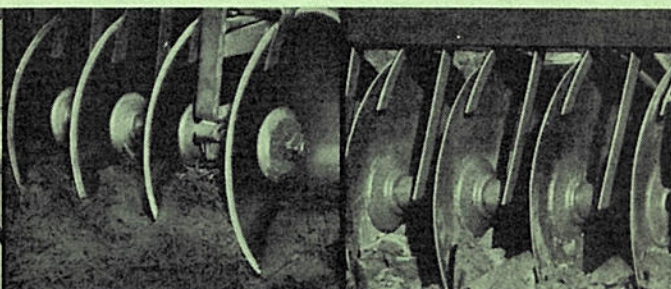
The Krause "9" direct mounted plow attaches easily and quickly to the Monroe lift on the Willys-Jeep. Two stabilizer arms attach centrally to the Jeep drawbar by means of an angle clevis arrangement. The clevis is attached by using the bolts which normally hold the stationary drawbar. Hitch adjustments are easily made to adapt the Krause "9" to various plowing conditions.



The 18 inch coulters, easily adjusted, absorb all side draft — penetrates heavy trash and weeds without clogging.



Large heavy duty dustproof Timken roller bearings are used at each end of the disc cylinder to give you lighter draft.



9 big, 22 inch discs with 8 inch spacings do a man-sized job. Hard-faced, self-sharpening discs at additional cost.

Plow through the thickest trash, the heaviest ground . . . trash guards and scraper keep the Krause "9" discs clean.

KRAUSE PLOW CORPORATION, HUTCHINSON, KANSAS

Save **TIME—MONEY—**

USE THE RICE-Mc GRAW "PLOW-FITTER"



**WILL FIT ONE OR
TWO-BOTTOM PLOWS
EITHER LIFT-TYPE
OR PULL-TYPE**

The PLOW-FITTER is designed to prepare a seed bed, while plowing, on a single trip over the field. It actually cuts and covers crop, litter and manure into the soil. This gives a seed bed in one-third the normal time. The soil is cut up, broken and distributed as it is plowed, so that it will retain the moisture and encourage early decay and prevent soil erosion. Better drainage is obtained. Because the PLOW-FITTER fits and breaks up the ground right down to the bottom of the furrow, the ground is aerated and the nitrogen and oxygen reach to the very roots of the crop. Your ground is softer after using the PLOW-FITTER because the disc and harrow catch the dirt from the mould board and it is cut and divided instead of being turned over in a solid furrow. With the old method the discs only fit the top three or four inches, leaving the bottom half of the furrow solid and untouched. The PLOW-FITTER fits the entire depth of the furrow. The PLOW-FITTER is easily attached to the "Jeep" plow and hydraulic system. It attaches



with two U-bolts that are clamped to the angles or channels of the plow. The PLOW-FITTER LIFTS WITH THE PLOW and has a hinge which allows the discs to roll over an obstruction, such as a rock, without bringing the plows out of the ground. The lift also allows the PLOW-FITTER to be transported from one field to another, or around a corner, without the necessity of unhitching the equipment from the plow or 'Jeep'. The disc section can be adjusted to pitch or angle, thus making it possible to change the direction of the blades as desired for different type soil.

PATENTS ALLOWED AND PENDING

RICE-McGRAW COMPANY
2900 EUCLID AVE., CLEVELAND, OHIO

SIMPLE, STURDY CONSTRUCTION



The harrow section is adjustable downwardly, so that it can be dropped further into the ground if necessary. The PLOW-FITTER does not have to be held into the ground as is usually the custom with other type discs and harrows. It can be backed up when lifted which helps in getting close to tree stumps or corners in a fenced area. Many farmers keep the PLOW-FITTER cross bar attached permanently to the plow, unlinking the A frame and disc section by removing the hinge pins from the cross bar. There is no noticeable additional pull or drag on the 'Jeep' when the PLOW-FITTER is attached to either the single or double bottom plow. The PLOW-FITTER is designed so that it is self-cleaning.

SPECIFICATIONS

SINGLE BOTTOM PLOW-FITTER

NET SHIPPING WEIGHT (not crated): 151 lbs.
OVERALL LENGTH: 87"
WIDTH OF DISC SECTION: 21"
WIDTH OF HARROW SECTION: 31"
NUMBER OF BLADES: 4
SIZE OF BLADES: 16"
BLADES ARE FLAME HARDENED
LENGTH OF FORGED TOOTH SPIKES: 7"
COLOR: Flambo Red and Chassis Black.

TWO BOTTOM PLOW-FITTER

NET SHIPPING WEIGHT (not crated): 181 lbs.
OVERALL LENGTH: 87"
WIDTH OF DISC SECTION: 34 1/8"
WIDTH OF HARROW SECTION: 49"
NUMBER OF BLADES: 6
SIZE OF BLADES: 16"
BLADES ARE FLAME HARDENED
LENGTH OF FORGED TOOTH SPIKES: 7"
COLOR: Flambo Red and Chassis Black.

The PLOW-FITTER is of welded construction. Shipped knocked down with assembly instructions.

RICE-McGRAW COMPANY
2900 EUCLID AVE., CLEVELAND, OHIO

NEWGREN LIFT-TYPE POST HOLE DIGGER

**A POST HOLE
A MINUTE!**

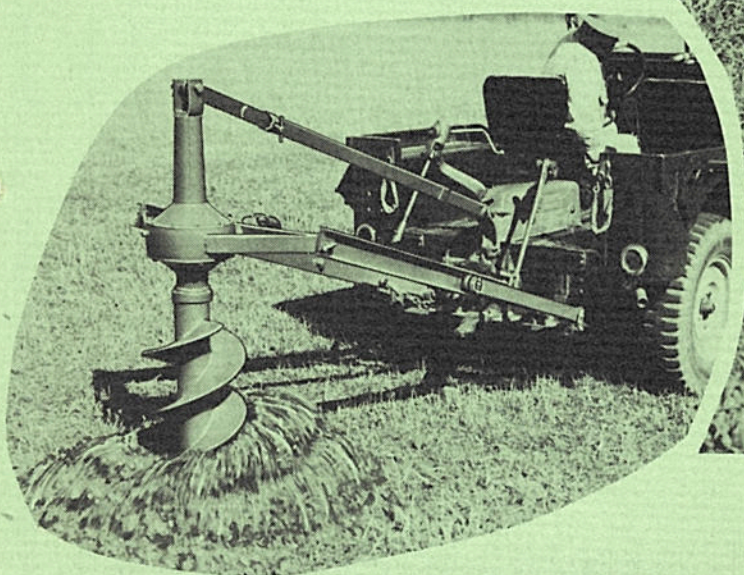
- **HYDRAULIC LIFT ASSISTED**
- **REVERSES AS WELL AS DIGS**
- **QUICK LIFT ATTACHMENT**
- **TREE SETTERS AVAILABLE**

A post hole a minute is a conservative estimate with this Newgren product. Operation, control, penetration and freeing of the auger are so easy that some farmers report even faster results. The post-hole digger attaches to the Jeep power take-off and the Monroe Hydraulic Lift. Down pressure of the lift, adjustable up to 500 lbs., aids in digging. The auger may be reversed when the hole is dug—there is no clogging or sticking in the ground. Angle digging may be made through adjustments forward and backward on the digger and from side to side with the tilt adjustment of the lift. There is approximately 15 degrees pendulum action of the auger in any direction. Holes may be dug in any type soil, including shale and sandstone.

12-inch auger standard equipment. Other auger sizes available on special order.

18-inch tree hole digger standard equipment when tree hole digger is desired. Other sizes on special order.

Standard auger length, 32 inches. 40-inch length also available.



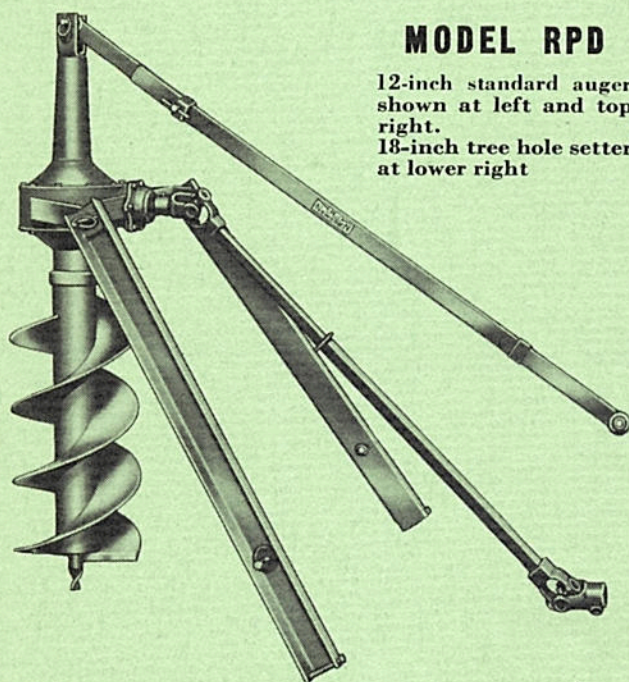
NEWGREN
THE NEWGREN COMPANY • TOLEDO 12, OHIO

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.

POST HOLES AT YOUR FINGERTIPS



MODEL RPD

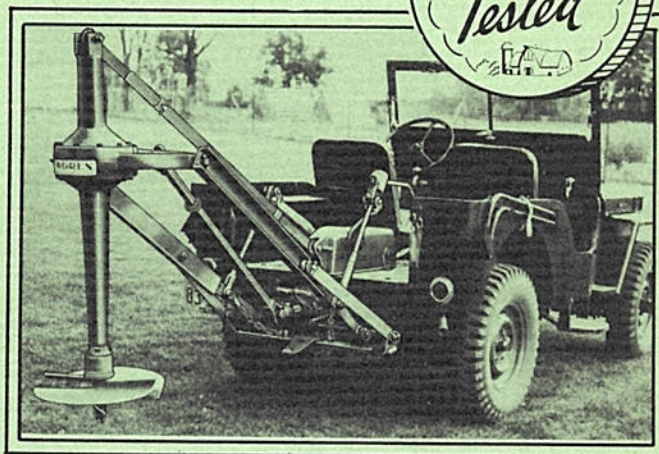
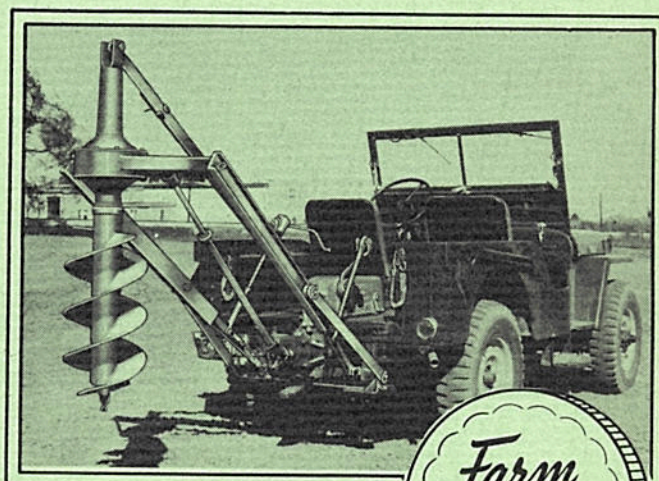
12-inch standard auger shown at left and top right.
18-inch tree hole setter at lower right

FEATURES AND SPECIFICATIONS

Three point mounting to Monroe Hydraulic Lift with strong angle steel arms at side and telescoping steel bar at top. Telescoping drive shaft to power take-off. Rugged universal joints deliver smooth power. Easy angle and locking adjustment holds digger in desired position. Safety shear pin avoids overloading digger. Cut steel bevel gears, running in oil bath, deliver power to digger shaft. Steel housed shaft with double bearings, all sealed against dirt. Steel plated blade cuts through stubborn growth and spins dirt upward. "Mine type" augers with replaceable tips. Timken roller bearings and Blood Bros. universal joints with Zerk fittings. Total height of post hole digger—52 inches. Shipping weight, 160 pounds.

When ordering, specify size or sizes of augers and or tree hole diggers desired (if other than standard). Use of stabilizer bars on Monroe lift recommended for precision operation.

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



FOR ROAD MAINTENANCE AND CONSTRUCTION

An outstanding equipment "package" for highway departments and contractors consists of the post-hole digger, scoop, road grader, earth mover, and leveler blade, all of which can be operated by one man with one Jeep equipped with the Monroe Hydraulic Lift. These versatile implements can be attached or detached without difficulty or loss of time, and the operation is easy with the fingertip controls of the Monroe lift.

THE NEWGREN COMPANY

Engineers and Distributors of Farm-Tested Implements
BUTLER, PENNSYLVANIA

A FAST SELLING "POWER POST-HOLE DIGGER"

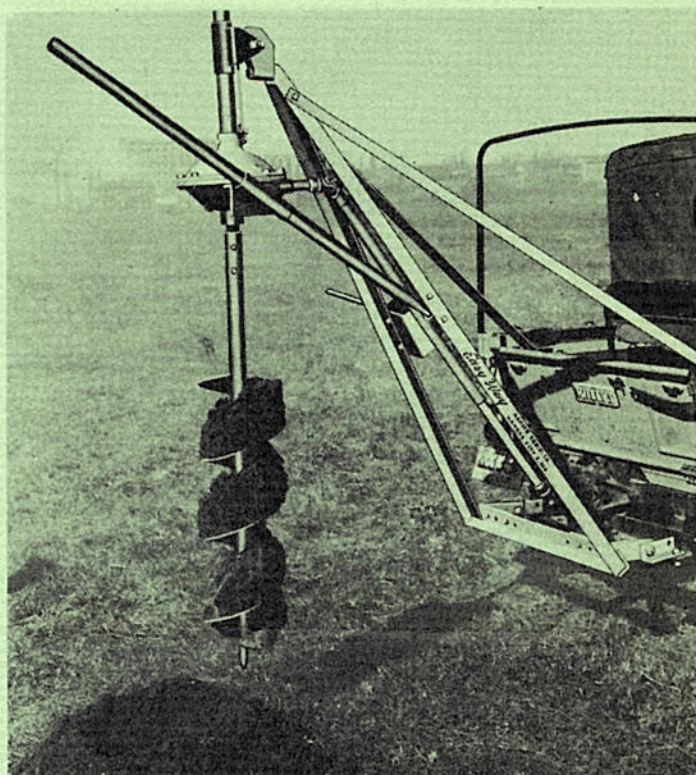
The *"Easy-Way"* Powered by a Willys Jeep
DIGS 40 to 60 POST-HOLES PER HOUR
6" or 9" WIDE, 32" to 42" DEEP!

EASILY ATTACHED OR REMOVED

DIGS AT ANGLES UP TO 35 DEGREES

The famous "Universal Jeep" provides another farm use with the simple installation of the "EASY-WAY" Power Post-Hole Digger. Easily attached to the power take-off, requiring only a few minutes and no special tools, the "EASY-WAY" can dig up to 500 post-holes a day.

Strong, sturdy, this all-metal power post-hole digger embodies every new feature to make it the finest available. Comparison of its low cost will convince any Jeep-owner that it's ONE POWER TOOL that he CAN afford and CAN NOT afford to be without. The "EASY-WAY" Post-Hole Digger solves the toughest labor problem on any farm or ranch.



**Tested and Proved in 47 States,
 Year Round, All Types of Soil.
 Thousands in Daily Use Throughout
 the U.S.A. and in Foreign
 Countries.**

**BIG DEMAND MAKES
 the "EASY-WAY" A FAST SELLER**

MAIL YOUR ORDER DIRECT TO FACTORY

TERMS: F.O.B. North Kansas City, Mo. Advertising circulars and newspaper mats available. Nationally advertised in Country Gentleman, Farm Journal, Successful Farming and other national publications.

Manufactured by

STANDARD STEEL WORKS
 NORTH KANSAS CITY, MISSOURI

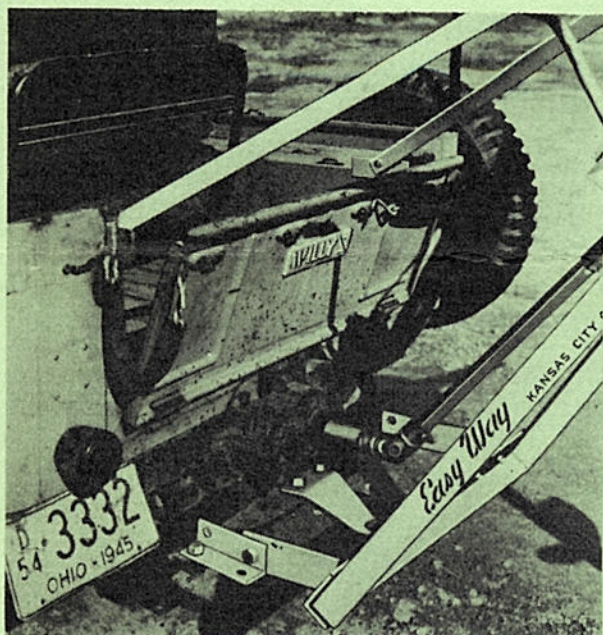
KEEGAN

Buy thru
 Cutler Sales

WILLYS-OVERLAND EQUIPMENT BOOK

The **"Easy-Way"**

IS SOLIDLY BUILT—
SOUNDLY ENGINEERED!



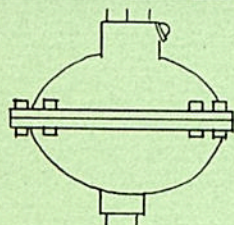
WILL LAST A LIFETIME—

A Low Cost Way to Build and Repair Fences

Wherever you can drive a JEEP, you can sink a clean, deep hole with the "EASY-WAY" Power Post-Hole Digger. You can set anchor posts or dig vertical holes regardless of the position of the Jeep—or dig at any angle up to 35 degrees.

A powerful TORQUE BAR prevents twisting and binding. The BAYONET TYPE REMOVABLE HEAT TREATED BIT gives fast penetration and easy lifting from the hole. Nationally known UNIVERSAL JOINTS give greater digging strength and power to the "EASY-WAY". GEARS are sealed in oil. In every way, this power post-hole digger gives top performance at practically no replacement or repair cost.

RIDES WITH JEEP—HANGING VERTICALLY LIKE A "PLUMB-BOB"

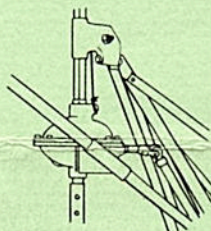


GEARS SEALED IN OIL

You have permanent gear protection—no need to worry about wear and tear on these MECHANITE GEARS.

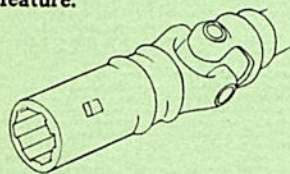
POWERFUL TORQUE BAR

Keeps a steady "grip" on entire machine, eliminating wobbling, twisting, and binds. Greater power is achieved by this added feature.



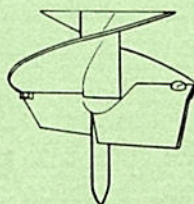
UNIVERSAL JOINT For Faster Digging

Nationally known brand, with splined fittings on power take-off, assure tremendous digging strength even in semi-frozen or hard packed ground.



Heat Treated BAYONET BIT

REMOVABLE — the "Easy-Way" bayonet bit can be sharpened with least trouble. 6" or 9" bits available. Saves digging time—never fails.



SPECIFICATIONS

Self-aligning in all directions like a plumb-bob—AUGER digs vertical hole regardless of tractor position.

ALL-STEEL construction throughout.
All-cast GEAR CASE HOUSING.

Special long life, MECHANITE GEARS.
Run in oil.

TORQUE BAR prevents bind — Speeds digging in all types of soil.

Nationally known UNIVERSAL JOINTS now standard equipment.

Self-lubricating OIL-LITE BEARINGS throughout—need no greasing or oiling.

Heat-treated, removable Bayonet type AUGER BIT of special design adapted to widest variety of soil conditions.

SHEAR PIN on Auger Shaft prevents damage to Gears in emergency.

2"x2"x1/4" SIDE FRAME ANGLES.

3"x2"x3/8" ANGLE IRON HEADER.

1200-pound breaking strength WINCH LINE.

Quickly and simply attached or removed.

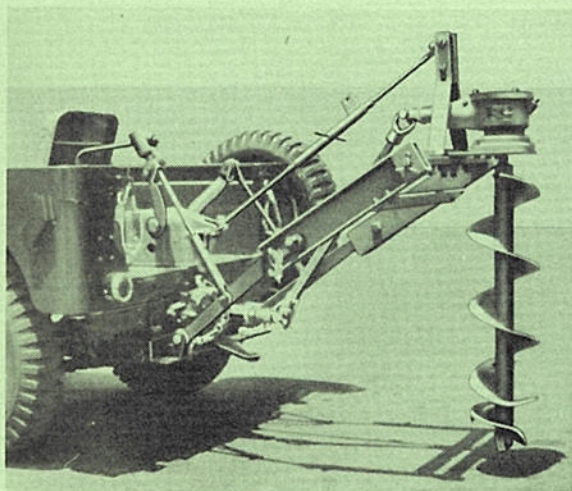
Manufactured by
STANDARD STEEL WORKS
NORTH KANSAS CITY, MISSOURI

KEEGAN

CHAMPION POST HOLE DIGGER

MODEL B

Now Available for the Universal 'Jeep' When Equipped with Monroe Hydraulic Lift Plus 1 3/8" Splined Power Take-Off Shaft



Adjust auger point to digging position, sit in seat and start digging holes. One man operates Digger.



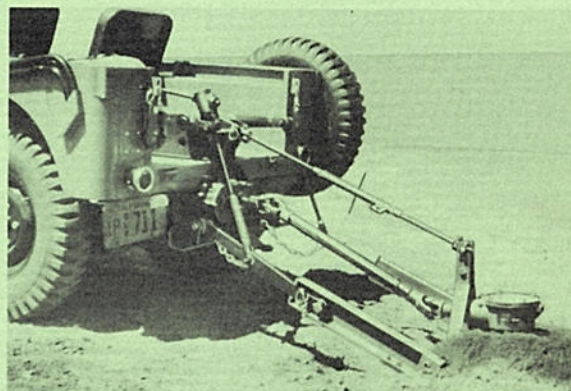
CHAMPION is precision built by Digger specialists with fifteen years experience. Carefully designed and patented. Requires only a few minutes to install. Takes minimum space. No high booms to tangle with wires and trees.

Other uses besides fencing are:

Fertilizing down to roots of orange and other fruit trees.

Drainage control, foundations, tree and nursery planting, concrete footings, sign posts and guard rail holes, blast holes for clearing stumps, celery trenches, test holes and many more. Extra income when doing work for others.

Farmers, ranch owners, nurserymen, contractors and many others, can dig holes in wide area of country, state or nation with the Mobile Jeep.



Champion digs holes 9" in diameter, 36" deep, and fast. Weight, approximately 190 lbs. Champion is probably the fastest post hole digging machine of its kind, requiring only from 7 to 10 seconds to dig a hole in average soil conditions.

For Literature, Prices and Delivery, Write

SOUTHWEST EQUIPMENT COMPANY

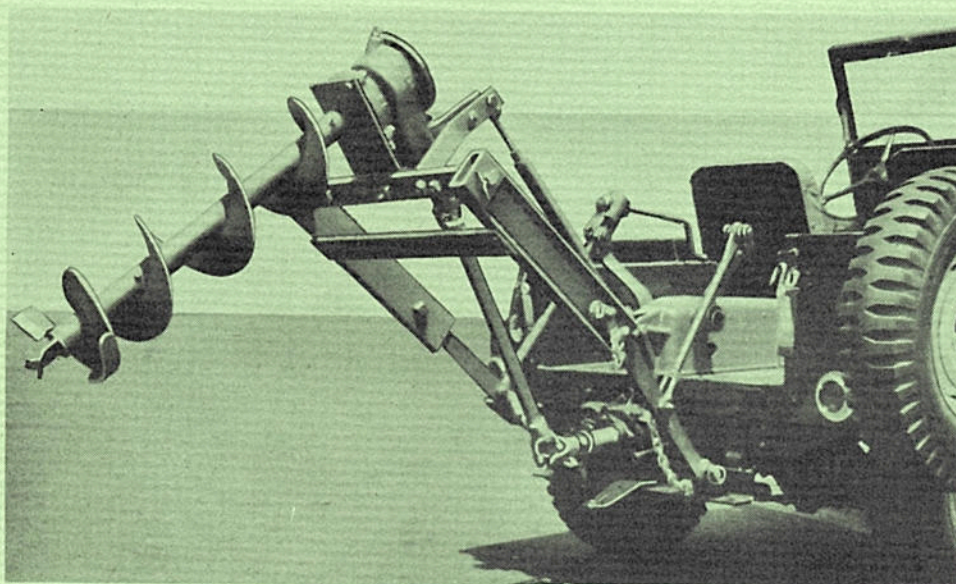
BOX 4911, FLORENCE STATION, LOS ANGELES 1, CALIFORNIA

WILLYS-OVERLAND EQUIPMENT BOOK

CHAMPION *Advantages are!*

Lower first cost. • Light weight—lower freight. • Easier and quicker to install. • Faster digging. • Faster one shot hole cleaning. • Finest quality gears, shafts and bearings. All add up to saving of time and money.

Only the CHAMPION DIGGER has auger with two speed flight (Pat. Pending). Lower flight has gradual easy lift of heavy chilled plow steel. Takes less effort, less power. Then, once earth is broken, upper flight elevates it at triple speed. Thrust plate prevents caving. Result—clean hole first time down.



SPECIFICATIONS

Comes equipped with 9" auger, digs 36" deep. Also available 6" and 12" augers. Cutter blades are hard faced for longer life. Special new fast penetrating centering point, also hard faced. Attaches to JEEP (with Monroe Lift and 1 $\frac{3}{4}$ Power Take-off shaft) in few minutes. Drives through wide angle joints and telescoping shaft. Improved transmission has 3 oil seals to protect Timken Bearings. Fill gear case with Texaco Marfak #1 or S.A.E. 140 oil. A shear pin is provided in auger. Pinion Gear and input shaft one piece nickel molybdenum steel drop forged. Bevel Gear drop forging of same material. Spindle or output shaft is splined into gear and is chrome molybdenum steel. Auger has two speed flight (Pat. Pending). Replaceable cutter blades. Special thrust plate and other features for non-caving, non-clogging. Cleans hole in first time down in most soils. Time and money saver. Shear pin and set screws are added features. The CHAMPION is a proven machine. Thousands have been sold for use in the U. S. and many have been exported to foreign countries.

For Literature, Prices and Delivery, Write

SOUTHWEST EQUIPMENT COMPANY
BOX 4911, FLORENCE STATION, LOS ANGELES 1, CALIFORNIA



**More "SPEEDIGGERS" in use
for more years than any other**



"SPEEDIGGER" in transport position, showing tilting range.



Formerly
Piper Speedigger

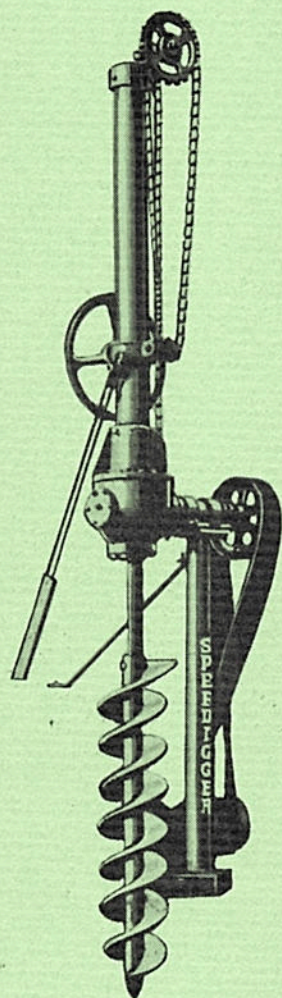
**Holes up to
54 inches deep
in 15 seconds!**

FASTER - EASIER to OPERATE

- A complete and clean hole of any size up to 20" diameter, going down only once.
- Drills straight down on any grade or hillside.
- Safe. Operator stands on Jeep — away from all moving parts — out of the dirt.
- Easy to operate. No complicated mechanism to adjust — no complex levers.
- Heavy duty. Built to withstand hard use. Quick and simple to attach.
- Pays for itself in 3 or 4 days' use . . . up to 600 post holes in 8-hour day.

**MANUFACTURED BY
FEDERAL MACHINE AND WELDER CO.
WARREN, OHIO**

WILLYS-OVERLAND EQUIPMENT BOOK



Auger Sizes Available — 4, 6, 9, 10, 12, 14, 16, 18, and 20 inches. 9-inch is standard equipment.

Extension augers in 3½ ft. lengths can be added, obtaining satisfactory depths up to 20 feet. Ideal for drilling shallow wells, subsoil testing, shallow mine testing, foundation footings, etc.

"SPEEDIGGER"

Does More Work — Increases Profits

The "Speedigger" will pay for itself not only in time and labor saved on your own jobs, but also on contract digging for others.

Gives Years of Service

Built of the finest materials . . . made to last a lifetime with proper care. Timken roller bearings are used throughout. Precision gears are sealed in oil. Shafts, augers and gears are made of special high-strength steel.

Many Sizes — Any Depth to 20 ft.

"SPEEDIGGER" digs holes up to 54 inches deep . . . or deeper with the use of additional auger lengths. Shipped F.O.B. Warren, Ohio, complete except for 3" belting. The 9" diameter auger is regular equipment. Other sizes of augers from 4" to 20" diameter are supplied as additional equipment. All augers have removable cutting edges — easy to replace or sharpen. All augers drill holes ¾ inch larger than auger diameter size to eliminate drag on sides of the hole. Augers are equipped with a flip arm that moves the dirt back from the edge of the hole.

One man control is available as extra equipment.

Complete Instructions

Complete instructions on assembling, mounting, operating and lubrication are shipped with each "SPEEDIGGER." A complete Parts List Catalog is also included.

Tested and Proved

The "SPEEDIGGER" is a tested, proved product . . . backed by more years of use than any other power-driven post hole digger. Some of the earliest "SPEEDIGGERS" are still in operation today — your assurance of satisfactory service.

Other Uses



REPLACING POST



NURSERY PLANTING



HIGHWAY FENCING



TELEPHONE POLES



OPENING GRAVES

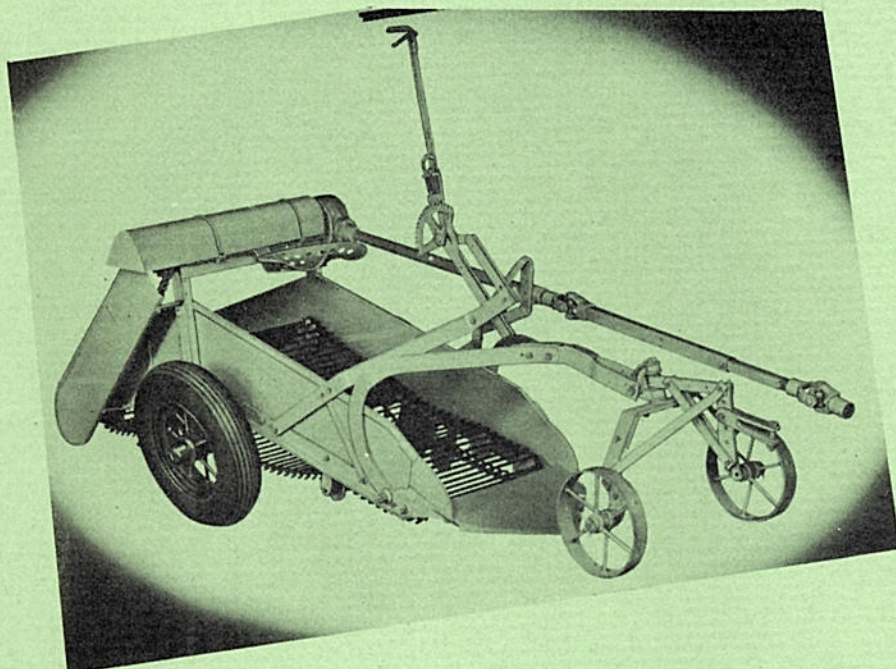


DYNAMITING STUMPS

"SPEEDIGGER" attaches to 87 models of wheel tractors — also trucks and Jeeps.

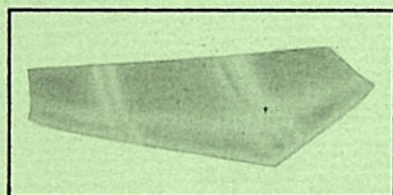
Patent Nos. 2250081 (U.S.)
407069 (Canada)

Manufactured by **THE FEDERAL MACHINE & WELDER CO., WARREN, OHIO**

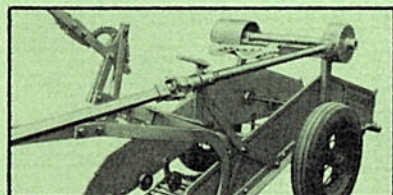


Only DOWDEN brings you Level bed and Elevator...

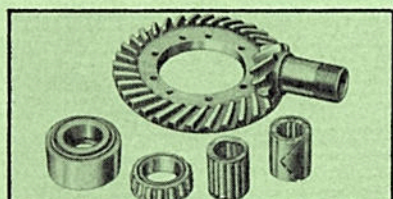
BOTH IN ONE MACHINE



SHOVELS—Special crucible steel shovels are formed to get under potatoes and raise them gently with fewer cuts and bruises.



STRAIGHT LINE DRIVE—To assure smooth even operation . . . take less power . . . gear case is placed at side of digger to provide straight line power drive.



BEARINGS—DRIVE PARTS—DOWDEN diggers are generously equipped with tough steel tapered roller . . . straight roller bearings to give long life, ease of operation.

No matter what the nature or condition of your soil is, you'll find you can dig potatoes *faster, easier* with less damage with the new DOWDEN power diggers. The reason for this is simple.

EASY CONVERSION

DOWDEN power diggers can be quickly converted to either level bed or elevator type of operation to best meet individual digging requirements.

When soil is loose and dry, set a DOWDEN in low or level bed position and you get fast, clean separation with a minimum of injury to potatoes.

When soil is moist and heavy, set a DOWDEN in conventional elevator position and you get cleaner separation unmatched by most other diggers.

ECONOMICAL OPERATION

As a result of this versatility — potato growers have fewer costly delays that leave pickers idle . . . fewer losses due to quick hard freezes . . . greater efficiency, more economical and profitable operation all around.

LIGHT IN DRAFT

DOWDEN single-row potato diggers offer more value per dollar investment than any digger we know. They are built in a choice of 24 or 26-inch widths. Regular equipment includes steel rowers, reversible levers, front truck, spline connection to jeep or tractor, and up and down conveyor chain. Roller truck, two wheel front truck or direct hitch equipment is also available when desired. Rod type rowers and hydraulic lifting cylinders are available as extras on special order. Be sure to get the best when you buy. Get a DOWDEN and enjoy the extra benefits they offer.



Tru-trail wagon

Soil Mulchers

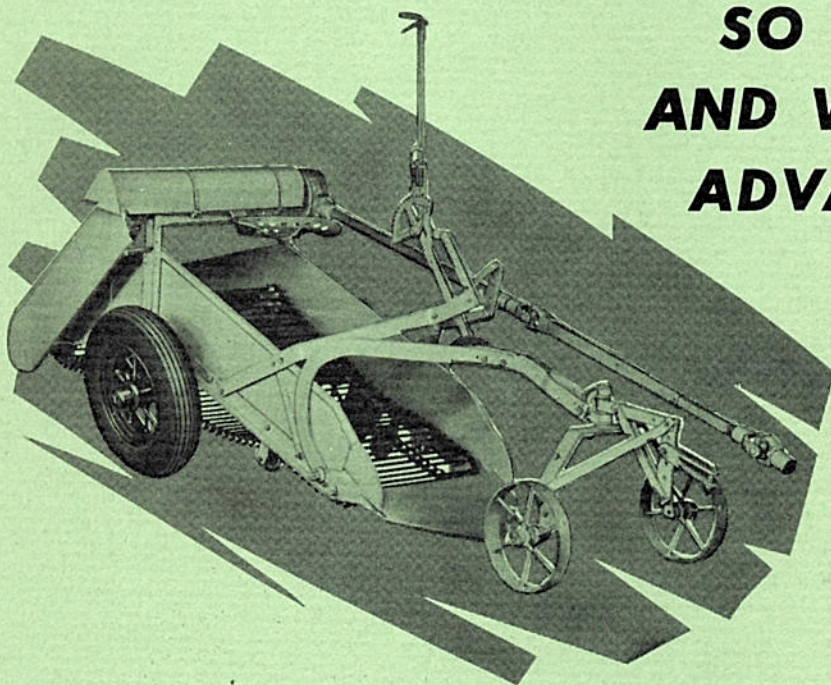
Gray iron castings

Ford Ferguson Foot Feed

Potato diggers

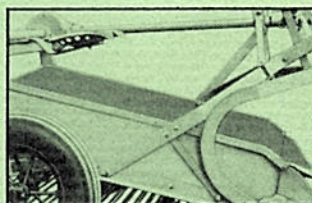
DOWDEN
MANUFACTURING CO.
PRAIRIE CITY • IOWA
SINCE 1885

**WHAT OTHER POTATO DIGGER OFFERS
SO MANY TIME
AND WORK SAVING
ADVANTAGES AS**



**DOWDEN
LEVEL BED
and
ELEVATOR
BOTH IN ONE MACHINE**

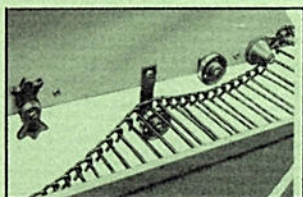
DOWDEN potato diggers are designed, engineered and built to give long years of dependable service. Shown here and on preceding page are many of features which make this digger so outstanding. Study them carefully. Compare each point for point. You'll find no other potato digger offers so much in dependability and service as a DOWDEN POWER-DRIVEN POTATO DIGGER — level bed and elevator both in one machine.



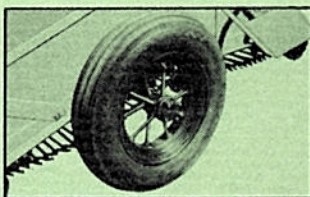
FRAME—Steel is used throughout to give strength and long life. Inside surfaces are smooth to prevent injury to potatoes.



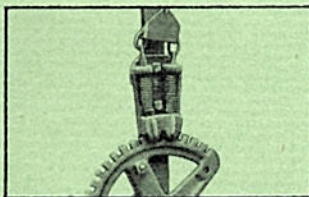
CONVEYOR CHAIN—To meet varying conditions of soil, conveyor chain can be quickly changed to level bed or elevator operation.



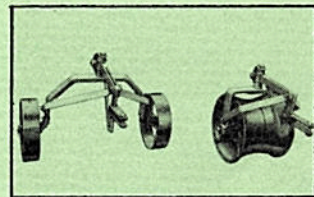
ROLLERS AND AGITATORS—Two sets of agitators, in addition to rollers, allow a range of chain agitation for all soil conditions—get potatoes cleaner.



WHEELS—Drop center steel wheels for 6.00 x 16 pneumatic tires or heavy steel wheels with 4-inch face are available on DOWDEN diggers.

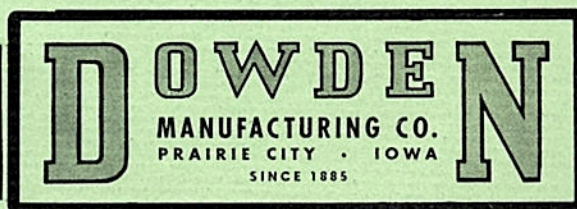


EASY BLADE ACTION—Minute depth adjustment is provided by double plungers engaging ratchet on levers. Levers can be reversed for operation from tractor seat.



CHOICE OF TRUCKS—DOWDEN Diggers are available with either two wheel trucks at left or roller truck at right.

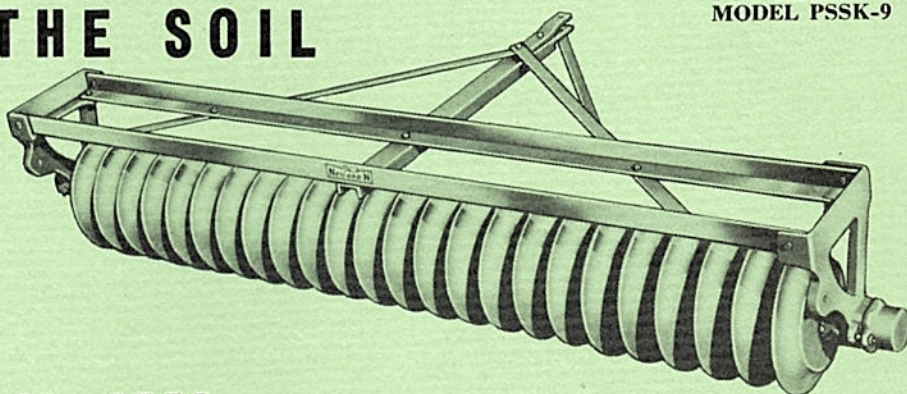
For complete information write



NEWGREN PULL-TYPE SOIL PULVERIZER (Single)

**BREAKS UP CLODS
AND FIRMS THE SOIL
TO PROVIDE
IDEAL
SEED BEDS**

**SINGLE
PULVERIZER
MODEL PSSK-9**

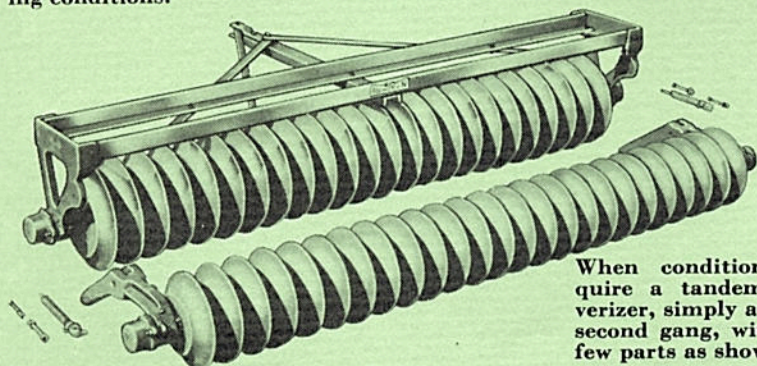
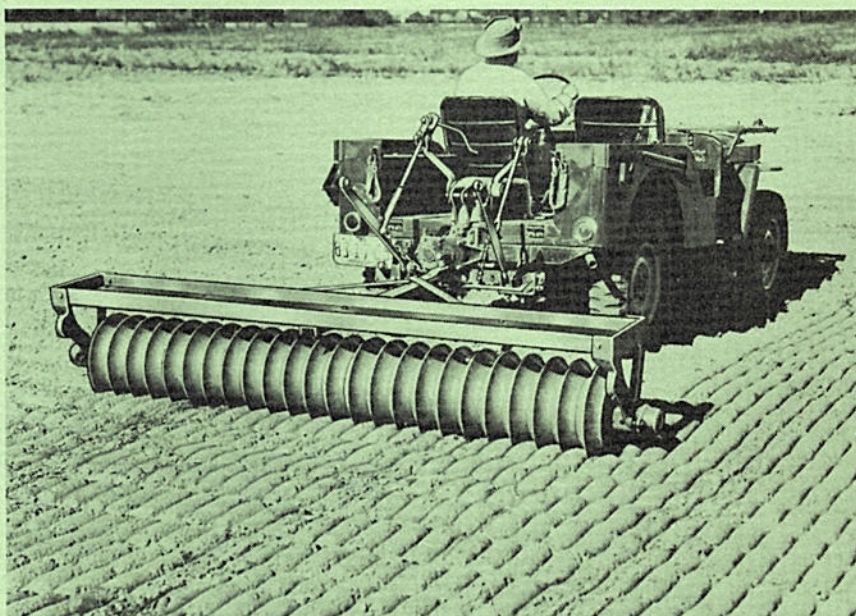


WITH THE UNIVERSAL JEEP

The Newgren Soil Pulverizer is a tool of many uses—all directly profitable to the farmer. It breaks up clods and hard soil before planting, or surface crusts after planting. It firms the soil around seeds or roots, corrugates the surface to resist wind blowing, rolls out cracks and holes to keep soil from drying out, destroys young weeds, and reestablishes surface mulch. It is a tool that makes ideal seed beds, speeds plant growth and brings bigger yields and bigger profits.

You can buy the Newgren Pulverizer with a single gang as shown on this page, or with a double gang as shown on the other side of this page. Or, you can purchase the single pulverizer, and later expand it into a tandem pulverizer by adding the additional gang when needed as illustrated below.

With the modern, sturdy construction that characterizes all Newgren implements, the pulverizer gives excellent operating results with the four-wheel-drive Jeep, and is thoroughly farm-tested under all operating conditions.



When conditions require a tandem pulverizer, simply add the second gang, with the few parts as shown.

**IT'S EASY TO MAKE
IT A TANDEM PULVERIZER**

SINGLE PULVERIZER FACTS

Overall length, 9 ft. Rolling capacity, 8 ft. Wheel diameter, 15 in. Shaft size, 1 3/4 in. Well-braced frame for easy turning. Heavy duty gang bearings. One-piece wheels made of chilled plow share material. Action of soil tends to keep edges sharp.

Shipping weight, 741 lbs.

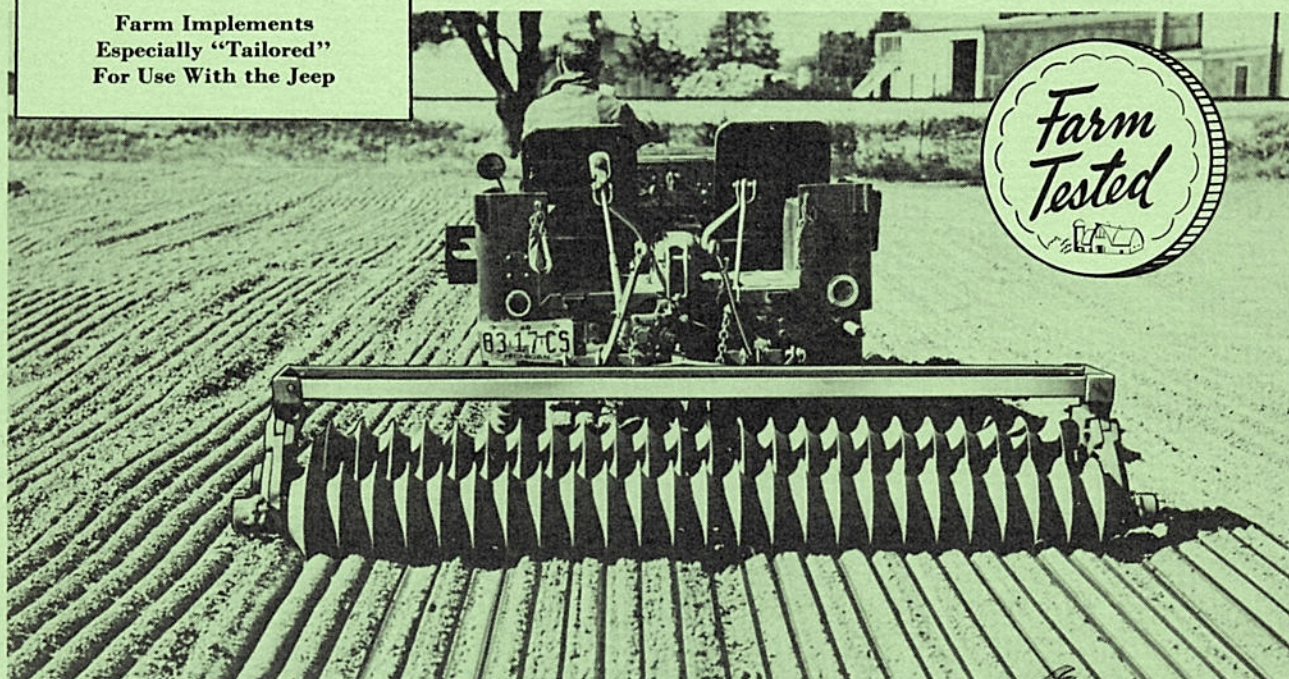
THE NEWGREN COMPANY • BUTLER, PA.

NEWGREN PULL-TYPE SOIL PULVERIZER (Tandem)



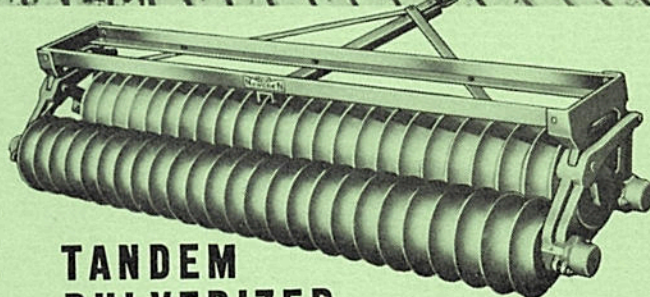
Farm Implements
Especially "Tailored"
For Use With the Jeep

**STABILIZED "FLOATING" ACTION
CUTS BOUNCING AND ROCKING —
— GIVES BETTER PACKING AT HIGHER SPEEDS**



**AUTOMATICALLY ADJUSTS
TO CONDITION OF SOIL**

The Newgren Tandem Soil Pulverizer has a special pressure equalizer through which the gangs are automatically adjusted to the condition of the soil. Thus, there is no bouncing or rocking and the rear gang is stabilized on the ground, whether the soil is hard, soft or uneven. Weight of the pulverizer is shifted forward in hard or cloddy soil, and shifted backward when soft soil is encountered. There is no choking action, and more uniform packing at higher speeds is possible no matter what the conditions of operation.



**TANDEM
PULVERIZER**

MODEL PDSK-9

BRIEF SPECIFICATIONS

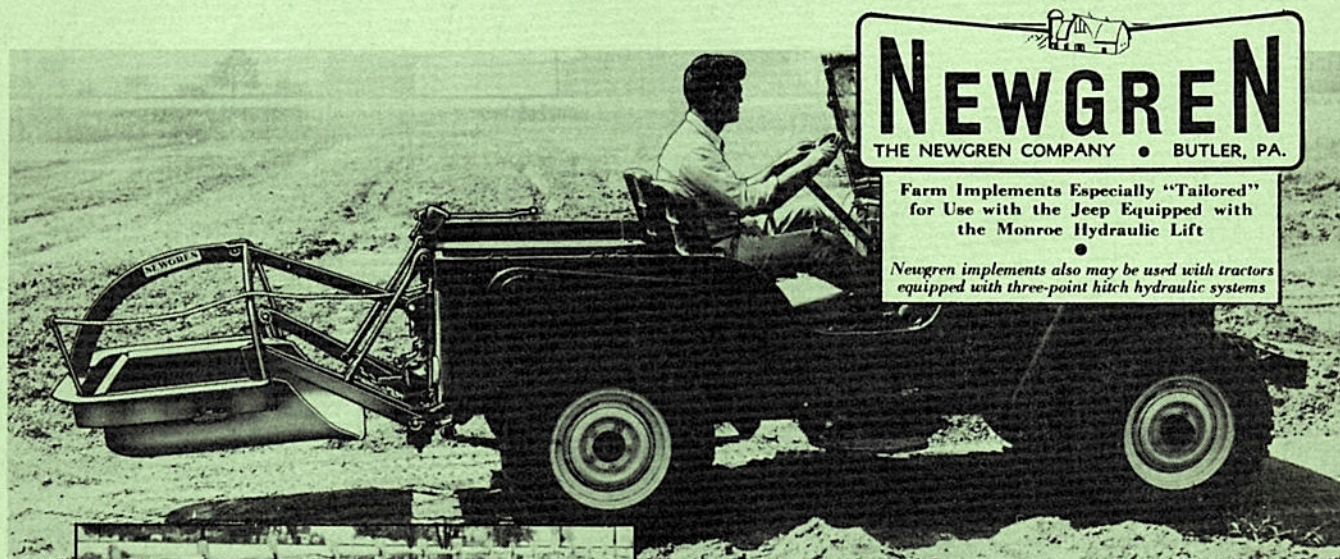
Overall length, 9 ft., 2 in.; Rolling capacity, 8 ft., 2 in.; Wheel diameters, front 15 in., rear 12 in. Automatic pressure equalizer between gangs to adjust weight to soil conditions. Shaft sizes, 1 3/4 in. Well-braced frame for easy turning. Heavy duty gang bearings. One-piece wheels, made of chilled plow share material. Action of soil tends to sharpen edges. Shipping weight, 1221 lbs.

THE NEWGREN COMPANY

Engineers and Distributors of Farm-Tested Implements
BUTLER, PENNSYLVANIA

NEWGREN LIFT-TYPE 6 Cu. Ft. SCOOP (With Reversing and Leveler Blade Attachments)

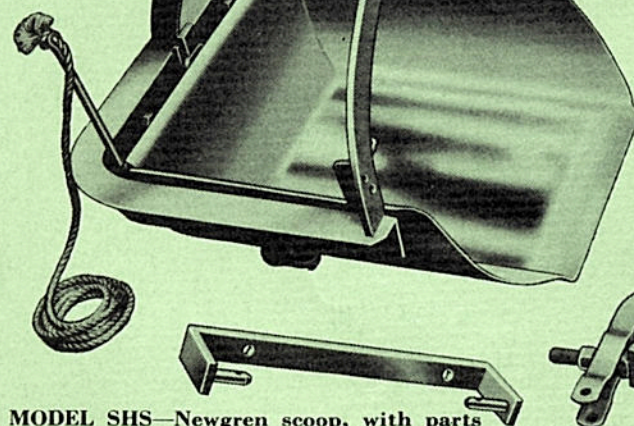
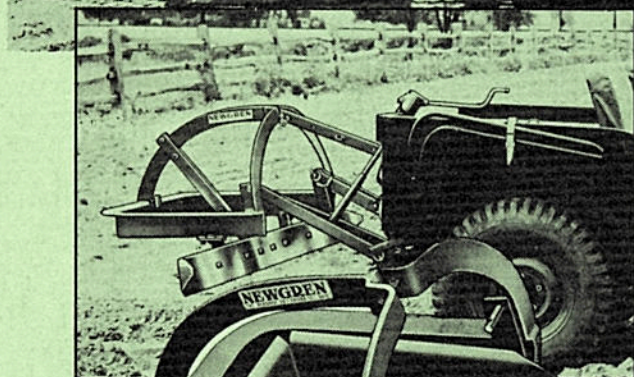
TO GIVE YOU USEFULNESS . . . UNLIMITED



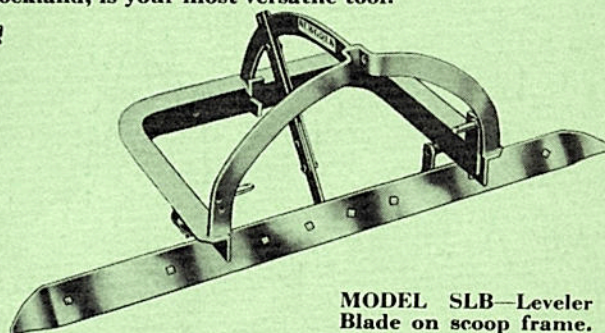
Standard scoop without attachments in transport position on Jeep equipped with Monroe Lift (above). Leveler blade, also in transport position, (left). Stabilizer bars used with lift with both tools to give precision operation.

YOUR MOST VERSATILE TOOL

Use the Newgren scoop forward or backward (with reversing fixture) for digging ditches, landscaping, terracing, leveling, filling gullies and washouts, backfilling, or levee, dam, road, basement and pond building. Use the leveler blade on the scoop frame for grading, leveling or terracing. You can attach either to the Monroe Hydraulic Lift in a minute. Raising, lowering, scooping are at your fingertips. The scoop carries 6 cubic feet of dirt, and dumps it while the Jeep is moving forward, backward or standing still. A light pull on a heavy duty release rope does the trick, then scoop returns to reloading position, automatically. Yes, this Newgren combination, built by Stockland, is your most versatile tool.



MODEL SHS—Newgren scoop, with parts below for reversing fixture (Model SRF).



MODEL SLB—Leveler Blade on scoop frame.

THE NEWGREN COMPANY • BUTLER, PA.

ONLY A PART OF WHAT IT WILL DO—



**LOADING
SCOOPING
CARRYING**



**DUMPING
LEVELING**

The Newgren Scoop in Action Without Attachments



**REVERSING
BACKFILLING**



**SMOOTHING
GRADING**



with the reversing fixture.

... with the leveler blade

FEATURES AND SPECIFICATIONS

Three-point attachment to Monroe Hydraulic Lift, and fingertip raising, lowering and control from lever at driver's side. Scoop cutting width, 24 inch. Depth, 1 to 6 inches. Capacity, up to 6 cubic feet. Reinforced forged cutting blade, held in place with counter-sunk rivets, and easily replaced. Heavy welded steel frame to take shocks and heavy wear and tear. Cold-formed steel scoop sides and welded steel bottom. Pitch of cutting blade controlled by top link for hard or soft dirt. Angle of cut adjusted by lift tilt control. Reversible fixture (extra) for

operating scoop backwards. Scoop releases with pull rope from driver's seat.

Leveler Blade 6 feet wide. Attaches to scoop frame in 5 minutes. Heavy steel construction with side wings. Cutting edge replaceable.

Shipping Weights: Scoop, 198 lbs. Reversible fixture, 16 lbs. Leveler blade with frame, 187 lbs. Leveler blade alone, 85 lbs.

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

THE NEWGREN COMPANY

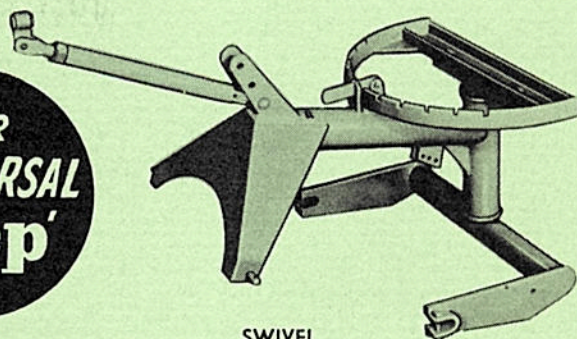
Engineers and Distributors of Farm-Tested Implements

BUTLER, PENNSYLVANIA

Heath

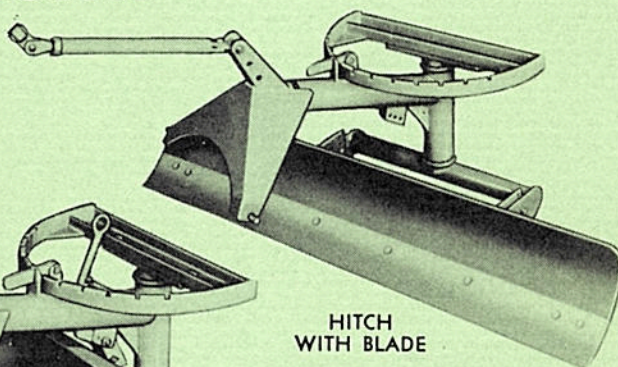
FOR
UNIVERSAL
'Jeep'

Hitch AND COMPLETE DIRT MOVING OUTFIT


SWIVEL
HITCH

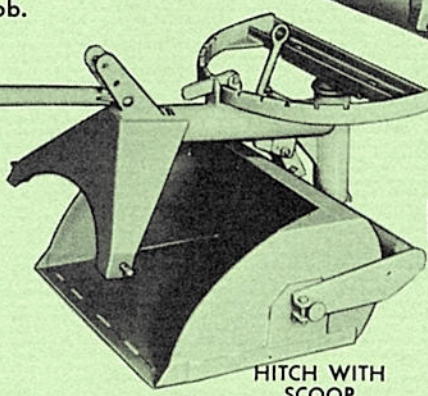
Hitch Swivels for Tilting and Angling

Patented swivel arrangement enables you to do many more jobs . . . the blade can be angled or tilted as desired to best handle each job.


HITCH
WITH BLADE

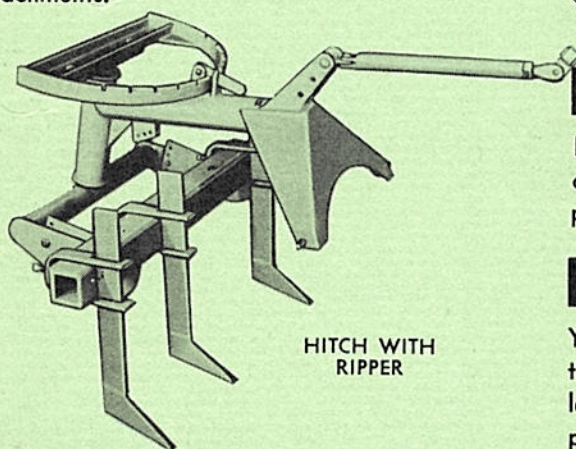
Positive Hydraulic Action

Heath equipment is designed to take advantage of the positive hydraulic action of the Willys Jeep and give easy, fast and accurate control of attachments.


HITCH WITH
SCOOP

Rugged Construction

Tubular welded steel construction stands up under the toughest jobs . . . yet is lightweight and easy to handle.


HITCH WITH
RIPPER

Design

Designed in size and shape to give best results for the amount of power and size of the Willys Jeep . . . thus give proper digging action and easy operation.

Complete Dirt-Moving Outfit

You can handle dozens of jobs quickly and at low cost with this outfit . . . grading, sloping, ditching, excavating and leveling . . . and easily take care of your snow removal problems.

Buy Any Combination of Attachments

You can buy the Heath Hitch and any one of the attachments . . . all of the attachments . . . or any combination you need to handle the type work you want to do.

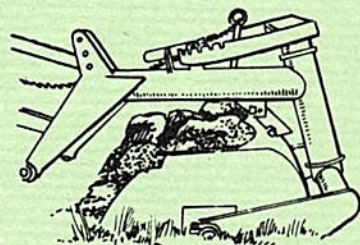
Heath ENGINEERING CO.
FORT COLLINS, COLORADO

WILLYS-OVERLAND EQUIPMENT BOOK

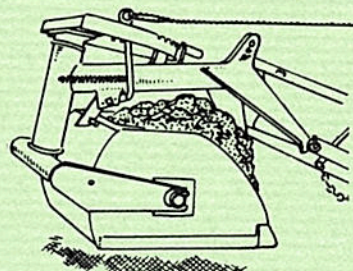
Heath Hitch AND COMPLETE DIRT MOVING OUTFIT

FOR
UNIVERSAL
'Jeep'

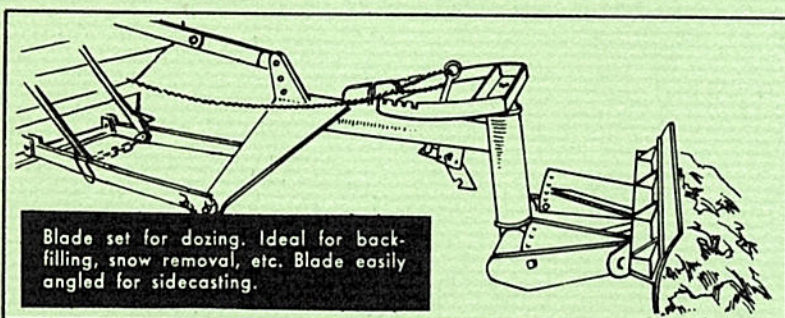
Inquire about the Heath Hydraulic Loader... made for front end mounting on Willys Jeep.



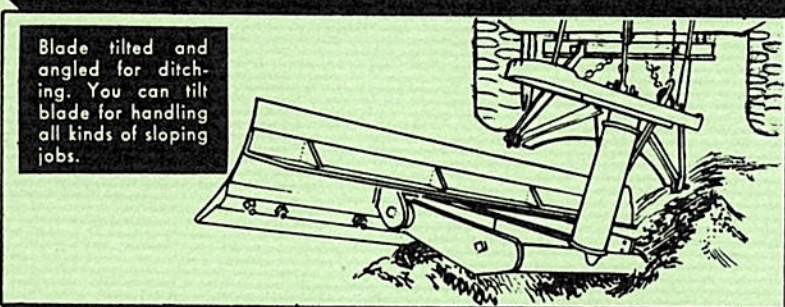
Scoop digs heaping load quickly. Makes smooth, even cut. Use for grading, ditching, excavating cellars, trench silos and pits.



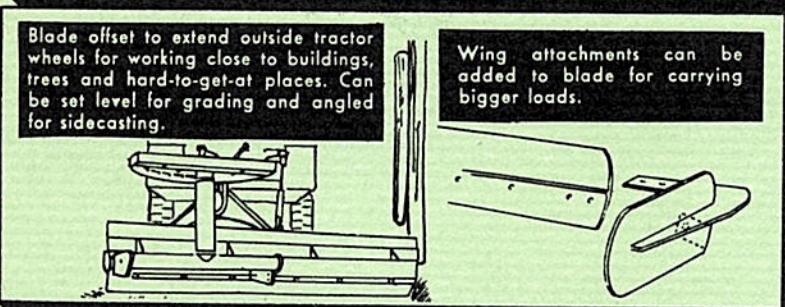
Hitch arrangement gives ample clearance of loaded scoop for travel over rough ground at top tractor speed.



Blade set for dozing. Ideal for back-filling, snow removal, etc. Blade easily angled for sidecasting.

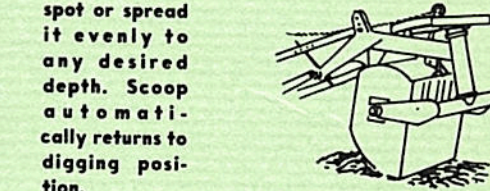


Blade tilted and angled for ditching. You can tilt blade for handling all kinds of sloping jobs.



Blade offset to extend outside tractor wheels for working close to buildings, trees and hard-to-get-at places. Can be set level for grading and angled for sidecasting.

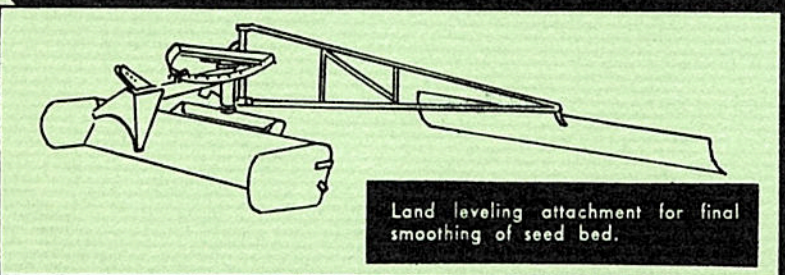
Wing attachments can be added to blade for carrying bigger loads.



You can dump load all in one spot or spread it evenly to any desired depth. Scoop automatically returns to digging position.



Ripper uses 1 to 6 teeth... you can rip up hardpan, then get easy, fast loading of dirt by scoop, or easily do grading with blade.



Land leveling attachment for final smoothing of seed bed.

HUNDREDS OF SATISFIED USERS!
IMMEDIATE DELIVERY
GET YOURS NOW

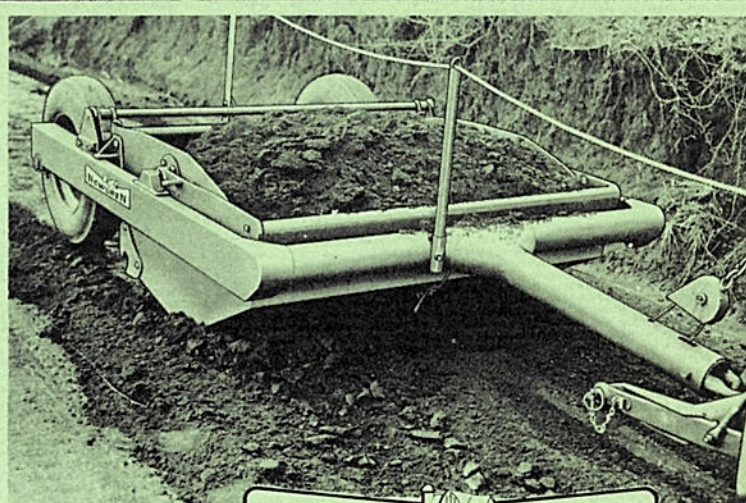
Heath
ENGINEERING CO.
FORT COLLINS, COLORADO

NEWGREN ALL-PURPOSE EARTH MOVER

**HANDLES FULL CUBIC YARD
AT SPEEDS UP TO 25 M. P. H.**



**BUCKET-TYPE SCRAPER
UTILIZES 4-WHEEL-DRIVE
TRACTION OF JEEP AND
FINGER-TOUCH OPERATION
OF NEW HYDRAULIC LIFT**



Here's new flexibility in earth moving equipment: A full cubic yard at speeds up to 25 miles per hour with the Jeep. Finger-touch operation with the Monroe Lift for digging, spreading and dumping. Adjustable down pressure up to 500 pounds if needed. Four-wheel drive motive power. Implement hitch or unhitch to lift in one minute. Everything operated by one man from the driver's seat. This Newgren tool will help you set new records in earth-moving. Ask for a demonstration.

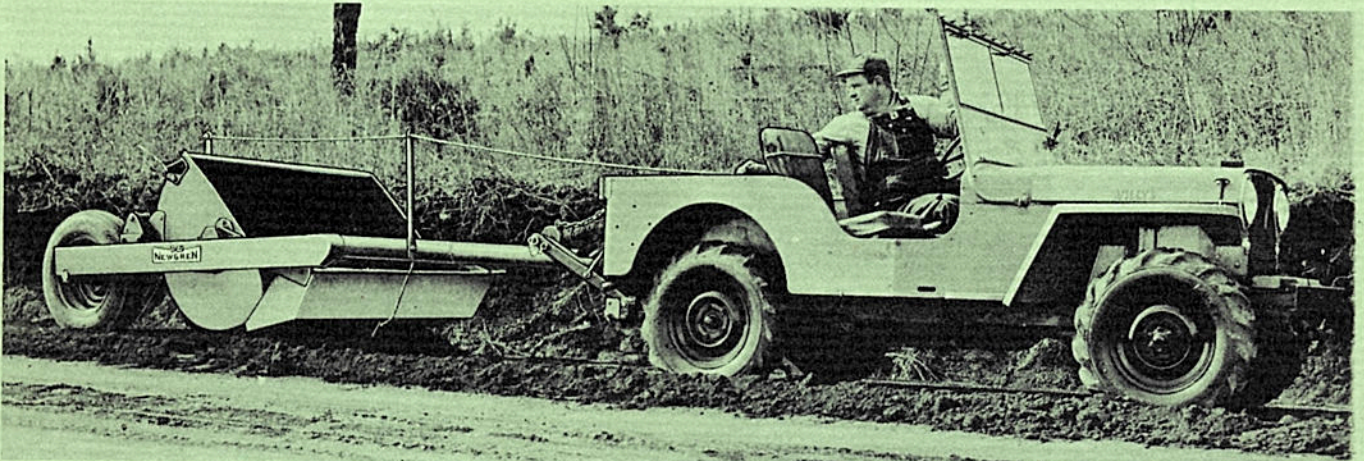
NEWGREN
THE NEWGREN COMPANY • BUTLER, PA.

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

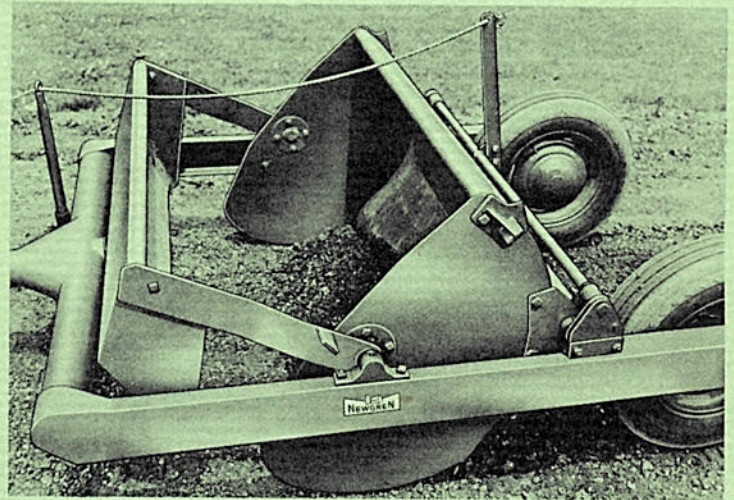
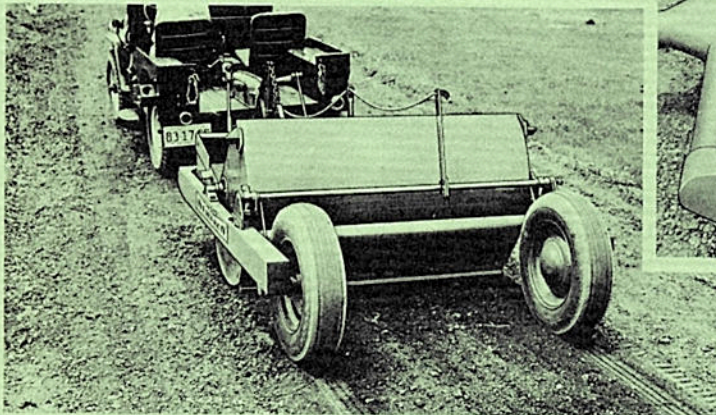
*Newgren implements also may be used with tractors
equipped with three-point hitch hydraulic systems*

THE NEWGREN COMPANY • BUTLER, PA.

WILLYS-OVERLAND EQUIPMENT BOOK



For grading and land leveling, digging trenches and trench silos, snow removal, building roads, excavating for basements, soil conservation, building reservoirs, airport maintenance, and countless other farm, road and construction uses.



SPECIFICATIONS IN BRIEF

All-Purpose Earth Mover—Level capacity, 27 cu. ft. Reversible high carbon steel cutting blade, $\frac{3}{8}$ x 6 in., 5 ft. wide. Timken tapered roller wheel bearings. Tires, 6.50 x 16. Diameter of sheaves, 4 in. Plow steel cable for apron. Overall length, 10 ft. Overall width, 5 ft. 9 in. Overall bucket height with blade on ground, 24 in. Ground clearance of bucket, 8 in. Lubrication, Zerk pressure. Shipping weight, approx. 1050 lbs.

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

CONTRACTORS OR FARMERS

The Newgren All-Purpose Earth Mover, with wheels behind the bucket, is the ideal equipment for use on township and county roads as well as on farms and ranches. It will fit in with large or small earth moving tasks as well as help maintain earth moving schedules for contractors. In combination with other Newgren tools—post-hole digger, scoop, road grader, terracer and others—a money-saving equipment "package" can be selected to operate with one vehicle, the Jeep equipped with the Monroe Hydraulic Lift. With these implements, one man can change tools in a few minutes, and operate them at maximum efficiency and economy—without assistance.

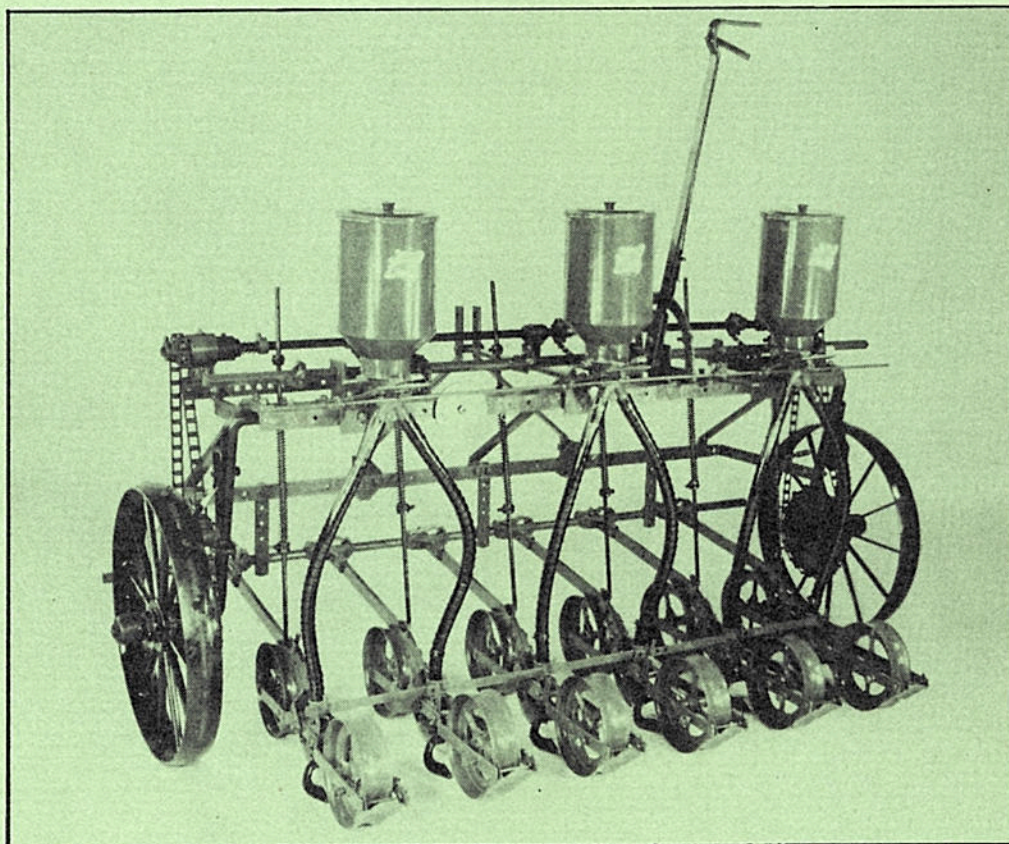
THE NEWGREN COMPANY

Engineers and Distributors of Farm-Tested Implements

BUTLER, PENNSYLVANIA

Planet Jr.

FOUR, FIVE OR SIX ROW SEEDER

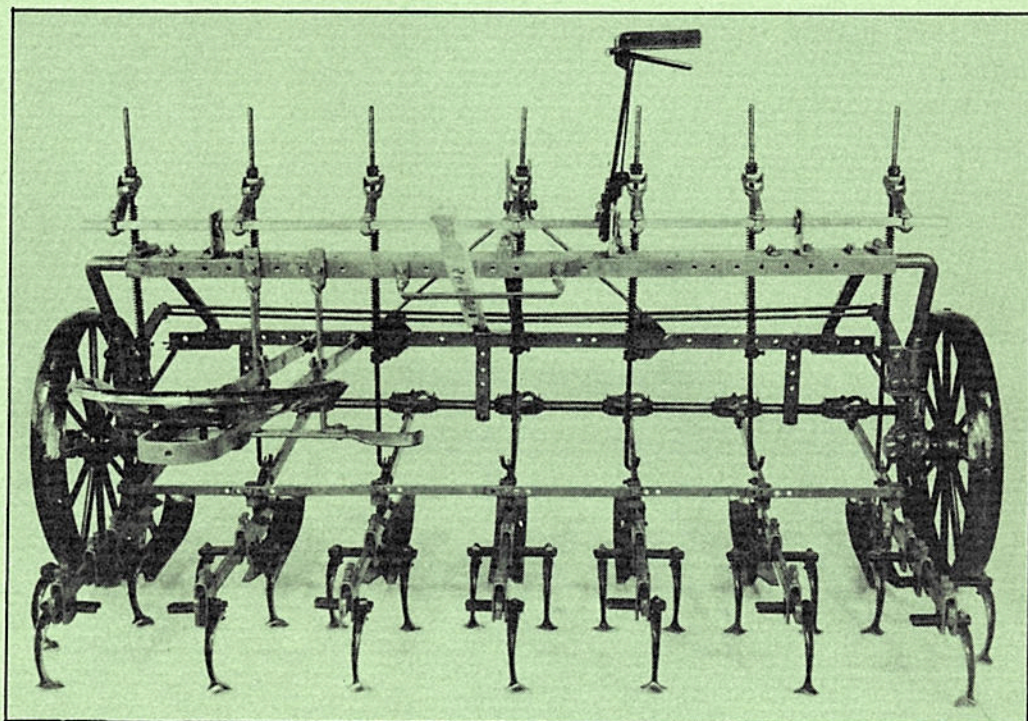


The Planet Jr. No. 155-F

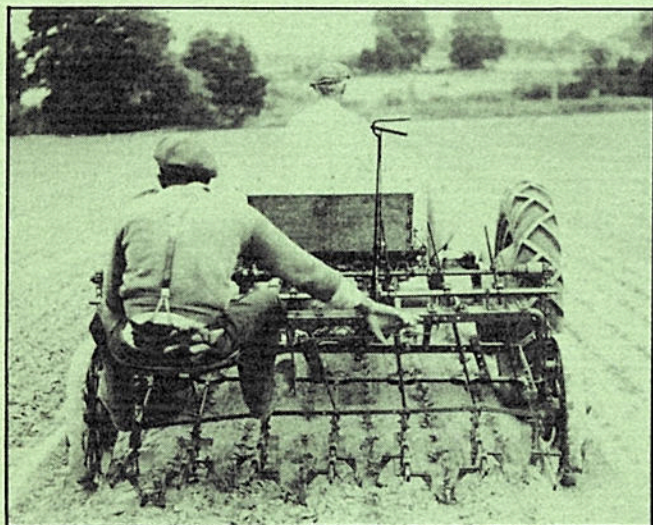
One requirement for success in growing vegetables is getting the seed into the ground exactly when the soil is in the best condition for germination. That means planting as many rows as practical at one time. In order to further reduce labor costs when seeding, plan for cultivating the same number of rows in one operation. The development of Planet Jr. along these lines has been going on for years.

Leading vegetable growers have found it profitable to use Planet Jr. seeders. Although this equipment is sold as a 4, 5, or 6 row machine, it can be adjusted for any number of rows, 72 inches center to center of the outside rows. The seed hoppers hold $9\frac{1}{2}$ quarts each. The seeder plants accurately any kind of vegetable seed from the smallest up to bush lima beans. One shutoff lever stops the flow of seed at all hoppers.

No. 55-F
CULTIVATOR



Planet Jr.



Many years of experimenting, designing and building agricultural tools make it possible to supply the needs of a world wide trade for Planet Jr. Cultivators. The No. 55-F Cultivator has earned a leading position "in the field" for efficiency, accuracy, and convenience. It combines old principles of cultivation—with new methods of control. The result is close, accurate and fast cultivation—at tractor speeds.

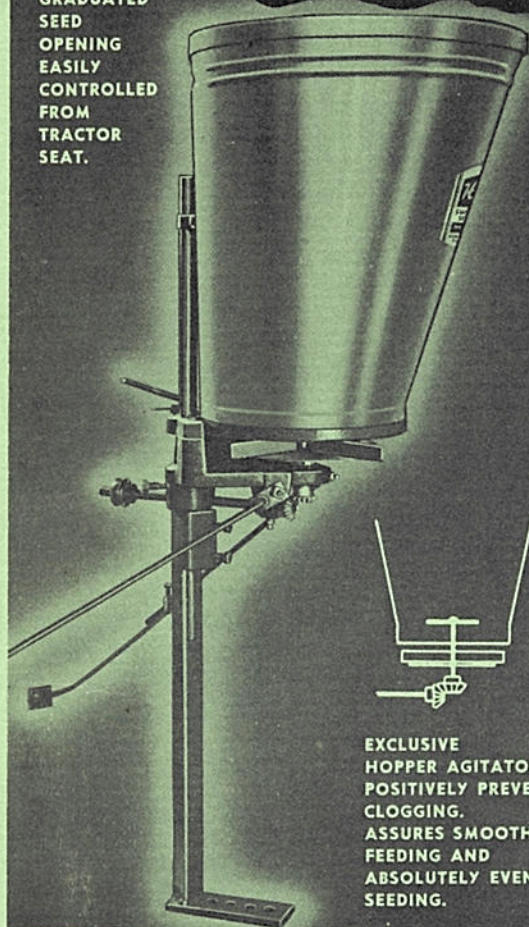
*For further information
and literature write*

S. L. ALLEN & COMPANY, INC.

Fifth St. and Glenwood Ave., Philadelphia 40, Pa.

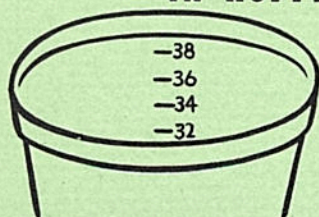
RAISE A *Better Crop* WITH THE *NEW*

GRADUATED
SEED
OPENING
EASILY
CONTROLLED
FROM
TRACTOR
SEAT.



EXCLUSIVE
HOPPER AGITATOR
POSITIVELY PREVENTS
CLOGGING.
ASSURES SMOOTH
FEEDING AND
ABSOLUTELY EVEN
SEEDING.

HANDY MEASURING GAUGE IN HOPPER



Shows amount of
contents—from 2
to 38 quarts—for
ease in accurately
measuring seed.



THESE *Features*

- ✓ Mounts directly on draw bar of practically all tractors and jeeps in just a few minutes time.
- ✓ Operates from power take-off — with V-Belt drive from 2-speed pulley on drive shaft. V-Belt acts as slip clutch.
- ✓ Graduated seed opening, calibrated in quarter inches for all types of broadcast seeding. Is easily controlled from tractor seat. Has been designed to accommodate the distribution of pellet fertilizers.
- ✓ Seeds 11 acres per hour at 4 M.P.H. tractor speed.
- ✓ Covers up to 24 foot width. Spreads evenly and economically. All seed is spread away from the tractor.
- ✓ 38 quart hopper will never rust or corrode — never requires painting. Convenient gauge inside hopper to show amounts of contents — from 2 to 38 quarts.
- ✓ Sturdily built, with heavy castings, and bronze and Oil-lite bearings — the Herd SURE-FEED Seeder will give years of dependable, trouble-free service. Zerk grease fittings make lubrication easy.
- ✓ Easy to assemble and install. Complete directions are furnished with every Herd SURE-FEED Seeder. Replacement and repair parts are available.

The HERD SEEDER COMPANY

Royal Center, Indiana

SAVES
• **TIME**
• **LABOR**
• **MONEY**



**MOUNTS ON
TRACTORS
AND JEEPS**
**OPERATES FROM
POWER TAKE-OFF**



**ONLY THE
Herd SURE-FEED Seeder
Has The
"HOPPER AGITATOR"**

**Prevents Clogging
Assures Economical, Even Seeding**

This feature is exclusive with the Herd SURE-FEED Power Seeder. Placed inside the hopper, it positively prevents the seed from clogging — even seed that has been inoculation treated. This assures even feeding into the fan and gives you greatest economy in seeding. All seed is thrown in back of, and away from, the tractor to avoid waste.

Replacement Parts Available at Low Cost

The HERD SEEDER COMPANY
Royal Center, Indiana

VENTURA *Bean Planter*



FEATURES at a glance

4 Row Planter
12" to 36" Spacing
(Even or Uneven distances)

DUAL DRIVE WHEELS
(Steel or Rubber)
(Roller Bearings)

POSITIVE DEPTH CONTROL
(2" to 6")

HANDLES ALL SIZE BEANS
(Also peas, squash, corn, etc.)

ELIMINATES SEED BUNCHING

EQUIPPED WITH ROW MARKERS

VARIETY OF BOOTS AVAILABLE

SIMPLE, RUGGED CONSTRUCTION

The Ventura Planter is a complete unit in itself. The dual drive feature of a driving mechanism on each end of the planter serves as a stabilizer in keeping the planter from changing seed depth at the outer ends. Any desired depths from 2" to 6" are obtained.

Welded steel construction is used throughout making the planter extremely sturdy and durable and assuring a long life of successful planting.

FOR DETAILED INFORMATION, SPECIAL INSTRUCTIONS OR ADDITIONAL LITERATURE WRITE

Manufactured by:

VENTURA MANUFACTURING



and IMPLEMENT COMPANY

1056 EAST FRONT ST., VENTURA, CALIF.

VENTURA

Bean Planter



AVAILABLE IN 2 AND 4-ROW TYPES

NOTE: When ordering specify kind of seed to be planted, row spacing, pounds per acre to be seeded and spacing in the row.

VERSATILITY. Seeding boots and mechanism can be set to any desired spacing of even or uneven distances anywhere on main frame bars.

THREE TYPES OF BOOTS. Standard boot, furnished as regular equipment; adobe boot for heavy land; runner openers (slight additional charge); the boot system is considered far superior to runner planter where seeds are often left on top of ground or too close to top to germinate.

SEED SPACING. Easily adjusted by changing sprockets to make seed drop at any desired distance apart.

SEED DROPPER. Plants only 1 seed at a time with precision and perfect regularity. Handles amazingly wide variety of seed; change of droppers is made quickly and easily.

NO BREAKAGE OR BUNCHING. Seed is handled as gently as if planted by hand. Planter operates close to ground, assuring accurate planting and preventing damage to seed.

PLANTER BOXES. Can be set quickly to any desired row spacing from 12" to 36". Extra boxes and shoes may be added if additional rows are desired. Standard model has 4 boxes.

SEED HANDLED. All kinds of beans; small white, limas, kidney, horse, castor; all kinds of peas and garbanzo; kaffir corn and other types of corn, milo maize, etc.; peanuts; asparagus; sunflower; squash; also selected seed for nursery stocks, such as cherry, plum pits, etc.

CONSTRUCTION. Full welded throughout, bearing and sprocket chains are made of finest materials available. The whole implement is constructed with a view to ease in handling but with great strength and durability.

FOR DETAILED INFORMATION, SPECIAL INSTRUCTIONS OR ADDITIONAL LITERATURE WRITE

Manufactured by:

VENTURA MANUFACTURING and IMPLEMENT COMPANY



1056 EAST FRONT ST., VENTURA, CALIF.

FIELD FORCE SPRAYERS



COMBINATION ORCHARD AND ROW CROP SPRAYERS

- **ECONOMICAL**
- **STURDY**
- **MODERN**
- **STREAMLINED**

TRIED AND TESTED BY WILLYS-OVERLAND

MANUFACTURED BY

FIELD FORCE MANUFACTURING COMPANY

PHOENIXVILLE, PA.

WILLYS-OVERLAND EQUIPMENT BOOK

THE MANY PURPOSE SPRAYER

ORCHARD SPRAYING
BARN DISINFECTING
CATTLE SPRAYING

ROW CROP SPRAYING
WHITEWASHING
WEED KILLING



Sprayers are equipped with: Automatically controlled pressure regulators; Paddle type agitators; Outside cleaned strainers; Rear platforms; Hoods over working parts; Clear cypress streamlined tanks, mounted on 4" electric welded steel channel frames; Adjustable axles of square tubular steel, for width and clearance adjustment; Automotive type wheels using "Timken" bearings! Either Field Force Open type or Deming Oil-Rite pumps.

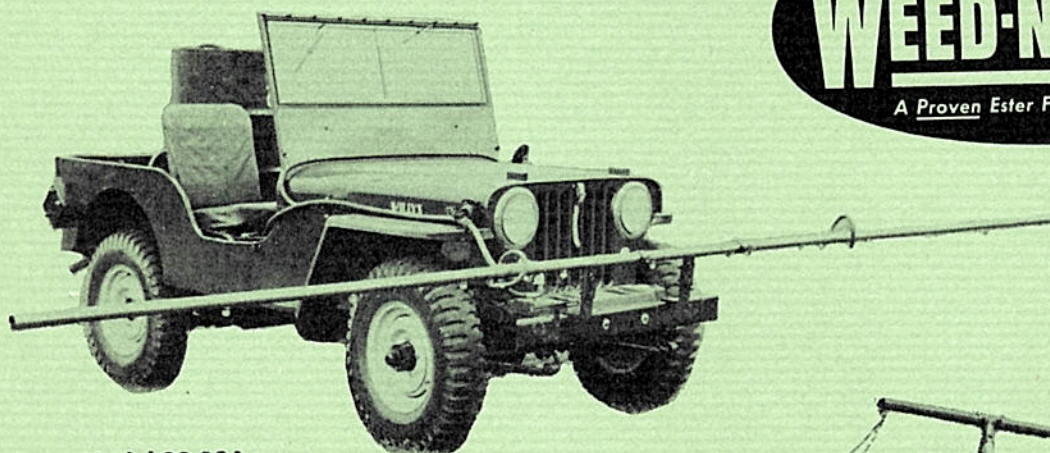
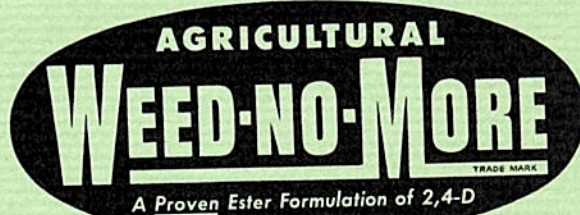
SPECIFICATIONS

	Pump Capacity	Pressure	Tank Capacity	Tires and Wheels	Dimensions	Wgt.
JR 1260-150	10	450 lbs.	150	6.00x16	57x122x66	1050
JR 992-150	12	450 lbs.	150	6.00x16	57x122x66	1100
JR 1260-200	10	450 lbs.	200	6.00x16	62x122x66	1075
JR 992-200	12	450 lbs.	200	6.00x16	62x122x66	1125
JR 2260-200	15	500 lbs.	200	6.00x16	62x122x66	1400
JR 993-200	18	500 lbs.	200	6.00x16	62x122x66	1450
JR 2260-300	15	500 lbs.	300	6.00x20	62x144x66	1600
JR 993-300	18	500 lbs.	300	6.00x20	62x144x66	1650

EXTRA EQUIPMENT

Tires and Tubes — Booms — Guns and Hose — Power Take-off Attachment — Tank Filling Attachment — Self Tracking Hitch and 90° Power Take-off Attachment

PRICES F.O.B. FACTORY. Subject to Change Without Notice.



**Model 20-18A
Standard Boom Sprayer
Attached to Jeep.**

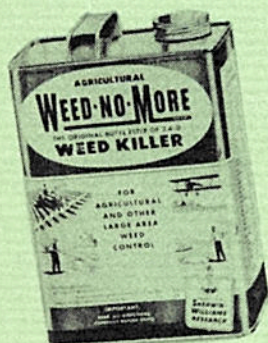


**Model 20-18A
DeLuxe Boom Sprayer
Attached to Jeep.**

NEW LOW GALLONAGE SPRAY METHOD USES ONLY 5 GALLONS OF SPRAY MIXTURE... OR LESS...PER ACRE

This revolutionary, new method of spraying, developed and proved in 1947 on more than 500,000 acres of grain crops, lets one man cover seven to fifteen acres per hour.

New precision nozzles make it possible to spread a small amount of liquid over an entire acre. Low pressure, low gallonage application brings these important advantages: water hauling is cut as much as 95%—wheel damage to the growing crop is reduced to a minimum—one man can handle the whole job—can treat as many as 100 acres in a day.



AGRICULTURAL WEED-NO-MORE A PROVEN ESTER FORMULATION OF 2, 4-D

Authorities have found that the ester formulation of 2, 4-D used in Agricultural Weed-No-More penetrates weed leaves within five minutes or less, then begins to work instantly. Agricultural Weed-No-More is perfectly suited for the low gallonage method of application, because it is effective in the smallest quantities and because it mixes thoroughly with water.

A PRODUCT OF SHERWIN-WILLIAMS RESEARCH

WILLYS-OVERLAND EQUIPMENT BOOK

LOW GALLONAGE SPRAYING BY HAND with Agricultural Weed-No-More

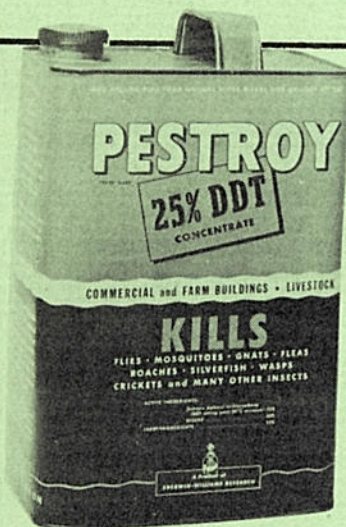
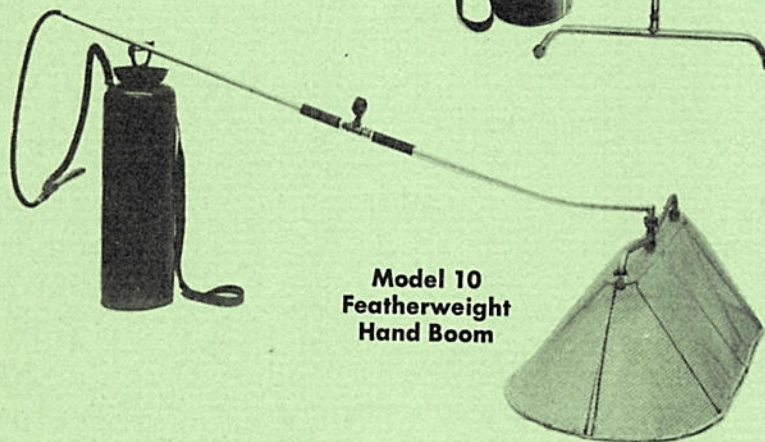
Model 12
All-Purpose
Boom



Model 11
Sweep Boom



Model 10
Featherweight
Hand Boom



PESTROY 25% DDT

IS A DDT CONCENTRATE FARM SPRAY—
BOOSTS PROFITS ON MILK, BEEF, EGGS & CROPS!

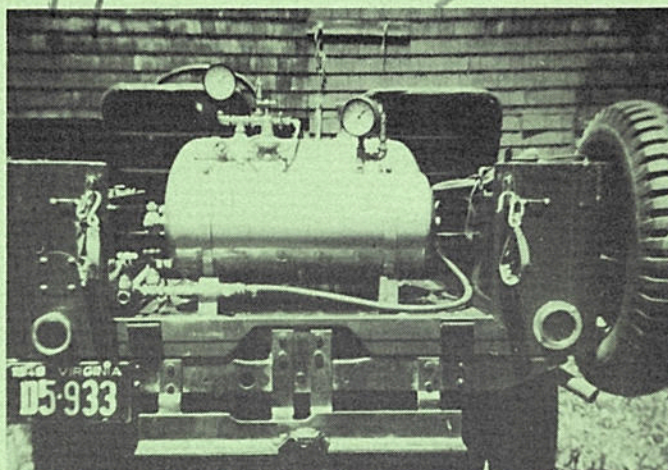
LIVESTOCK: For control of horn flies, mosquitoes and many insect pests on cattle. Spray with 1 to 2 qts. Pestroy 25% DDT in 25 gallons of water.

BARNs: Spray Pestroy 25% DDT, reduced to a 5% solution, on barn walls, ceilings, around doors and windows, to the run-off point, for complete control of stable flies and other profit-robbing insects.

CROPS: Pestroy 25% DDT as a crop spray kills corn borers, potato aphids, flea beetles, leafhoppers and gives effective profit saving control to many other insect pests in crops.

IMPORTANT: Pestroy 25% DDT is safe, easy-to-use, will not clog spray equipment, mixes easily with water and non-inflammable mixed as directed. Regular Universal 'Jeep' power take-off unit makes an ideal power source for spraying cattle, and barns. The Weed-No-More low-gallonage spray boom or any type spray equipment attachable to jeeps is satisfactory for crop-spraying with Pestroy 25% DDT. Care must be taken to deliver required amounts of DDT per acre.

CRAFTON COMBINATION SPRAYER



In this self-contained, completely mobile sprayer and fogging unit, compressed air is obtained from a small compact compressor mounted on the Jeep engine. This compressor, which will build up 120 pounds pressure in less than 4 minutes, can be disengaged automatically by racing the Jeep engine.

Air is stored in the auxiliary air tank.

A pressure regulator maintains a constant pressure and a steady flow of air from the auxiliary air tank to the main storage tank containing the spraying or fogging ingredients, thereby guaranteeing uniform spraying.

USES

- RESIDUAL SPRAYING
- MOSQUITO CONTROL
- TERMITE CONTROL
- PEST CONTROL
- FOGGING
- HOUSES and DAIRIES
- PAINT SPRAYING



SIMPLE TO OPERATE—
REASONABLY PRICED

FOR LITERATURE, INFORMATION ON DELIVERY, SHIPMENT, WRITE

TIDEWATER WILLYS

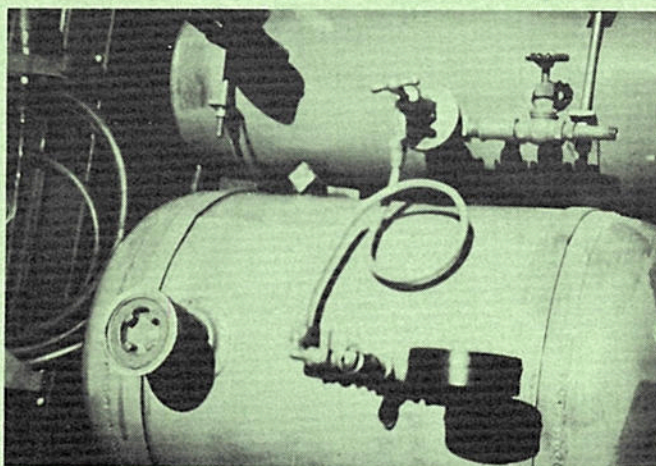
INC., 2604-10 GRANBY ST.,
NORFOLK, VIRGINIA

CRAFTON COMBINATION SPRAYER

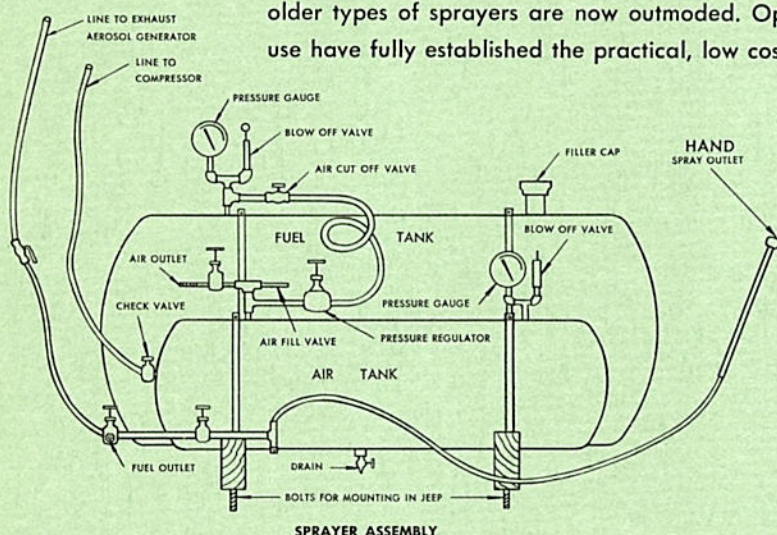
Note OVER

One of the safety factors of the auxiliary air tank is the relief valve, set for 120 pounds pressure. There is also a relief valve on the storage tank, set for 50 pounds pressure. This assures complete safety while operating the sprayer.

To get maximum efficiency from the fogging operation, the engine's temperature must be 140 degrees, or more.



The development of powerful new insecticides such as D.D.T. which in very small amounts are deadly to many insects calls for a new means of dispersal. Many of the older types of sprayers are now outmoded. Operating experience for interior and field use have fully established the practical, low cost advantages of this sprayer.



This unit can be mounted on the Universal CJ2A Jeep, or on the military-type Jeep, since it requires only a 36" x 36" space.

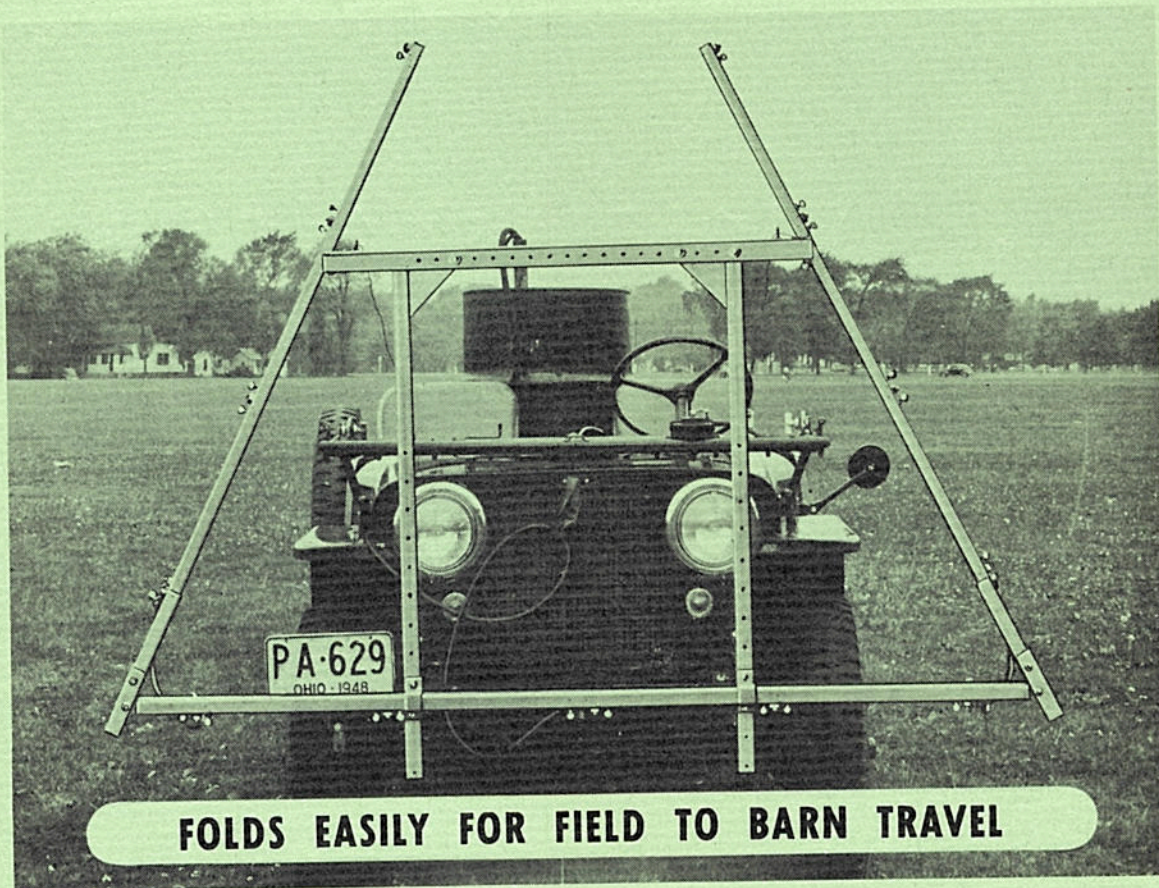
With this compact unit mounted on the mobile, sure-footed, 4 Wheel Drive Jeep, powered by the mighty Jeep engine, you have the most versatile, economical spraying outfit in the field today.

FOR LITERATURE, INFORMATION ON DELIVERY, SHIPMENT, WRITE

TIDEWATER WILLYS

INC., 2604-10 GRANBY ST.,
NORFOLK, VIRGINIA

"FARMER PROVEN"



FOLDS EASILY FOR FIELD TO BARN TRAVEL

RUGGEDLY CONSTRUCTED

ALL ALUMINUM

2-4D SPRAY BOOM

BALDWIN MANUFACTURING COMPANY

835 E. 140th STREET

CLEVELAND 10, OHIO

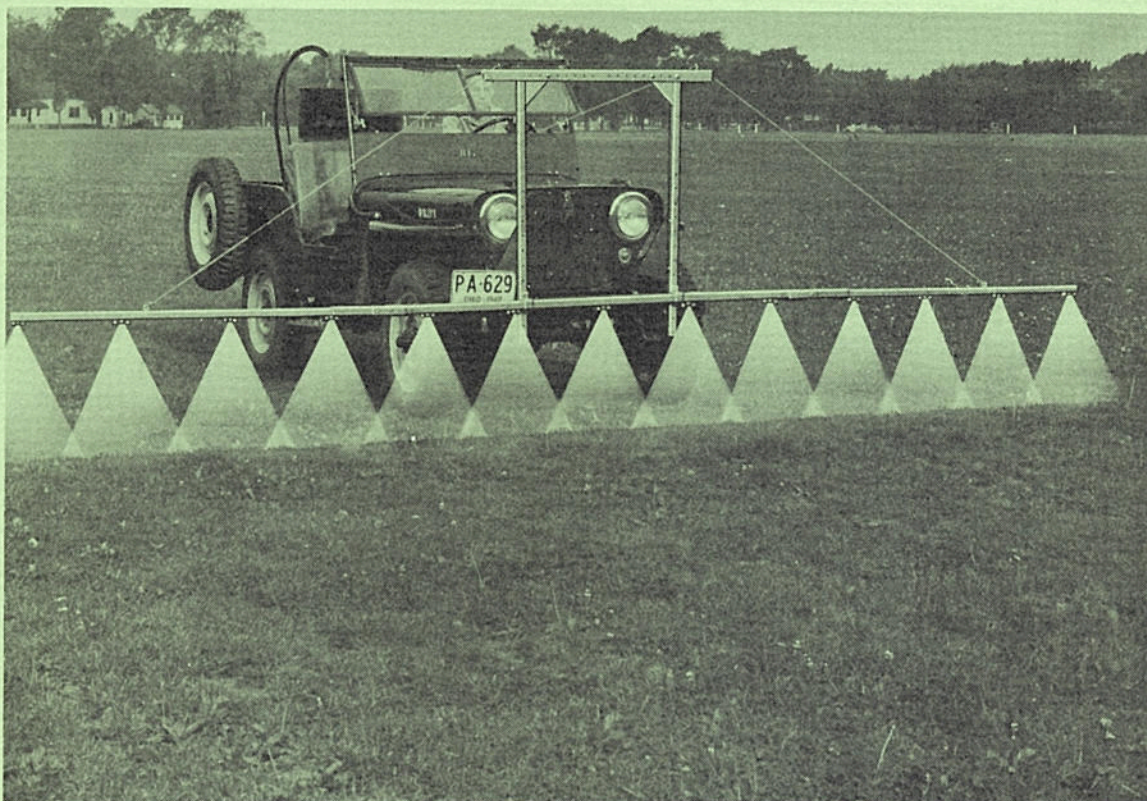
Telephones: IVANHOE 1770; GLENVILLE 9243

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

WILLYS-OVERLAND EQUIPMENT BOOK

FOR THE JEEP — IT CAN'T BE BEAT

LIGHT WEIGHT — STURDY — CORROSIVE RESISTANT



19 FOOT SPRAY COVERAGE

**FOR FARM CROPS • PASTURE LAND • ROADSIDES
GOLF COURSES • PARKS • AND OTHER TURF AREAS**

**APPLIES 5 GALLONS PER ACRE AT
4 M.P.H. WITH 30 LB. PRESSURE**

BALDWIN MANUFACTURING COMPANY

835 E. 140th STREET

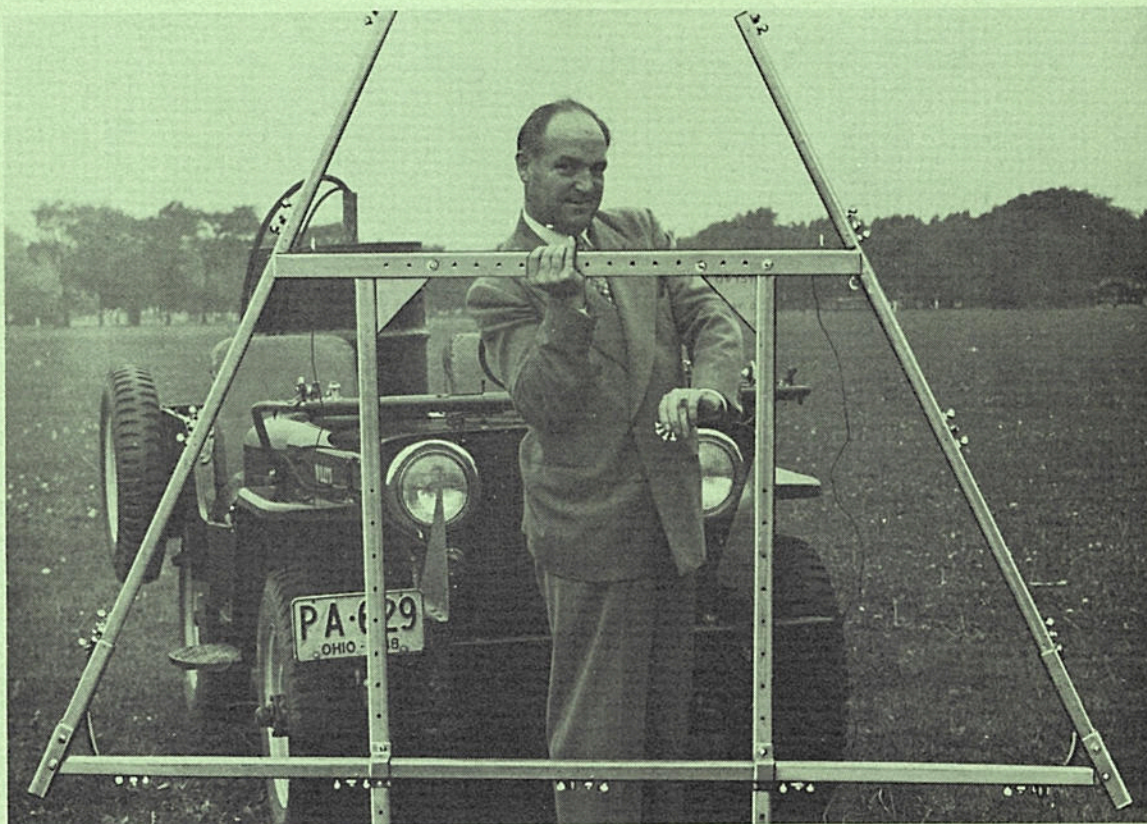
CLEVELAND 10, OHIO

Telephones: IVANHOE 1770; GLENVILLE 9243

FIELD PROVEN ON OVER 300,000 ACRES

**ONE UNIT HAS OVER 4,000 MILES IN FIELD AND
HIGHWAY OPERATION — STILL LOOKS LIKE NEW**

HELD BY 4 BOLTS — REMOVE IN 2 MINUTES



LIFT WITH ONE HAND

LIGHT — STURDY

**AIRPLANE TYPE DESIGN GIVES
MAXIMUM STRENGTH — MINIMUM WEIGHT**

ADJUSTABLE UP TO 42" ABOVE GROUND

BALDWIN MANUFACTURING COMPANY

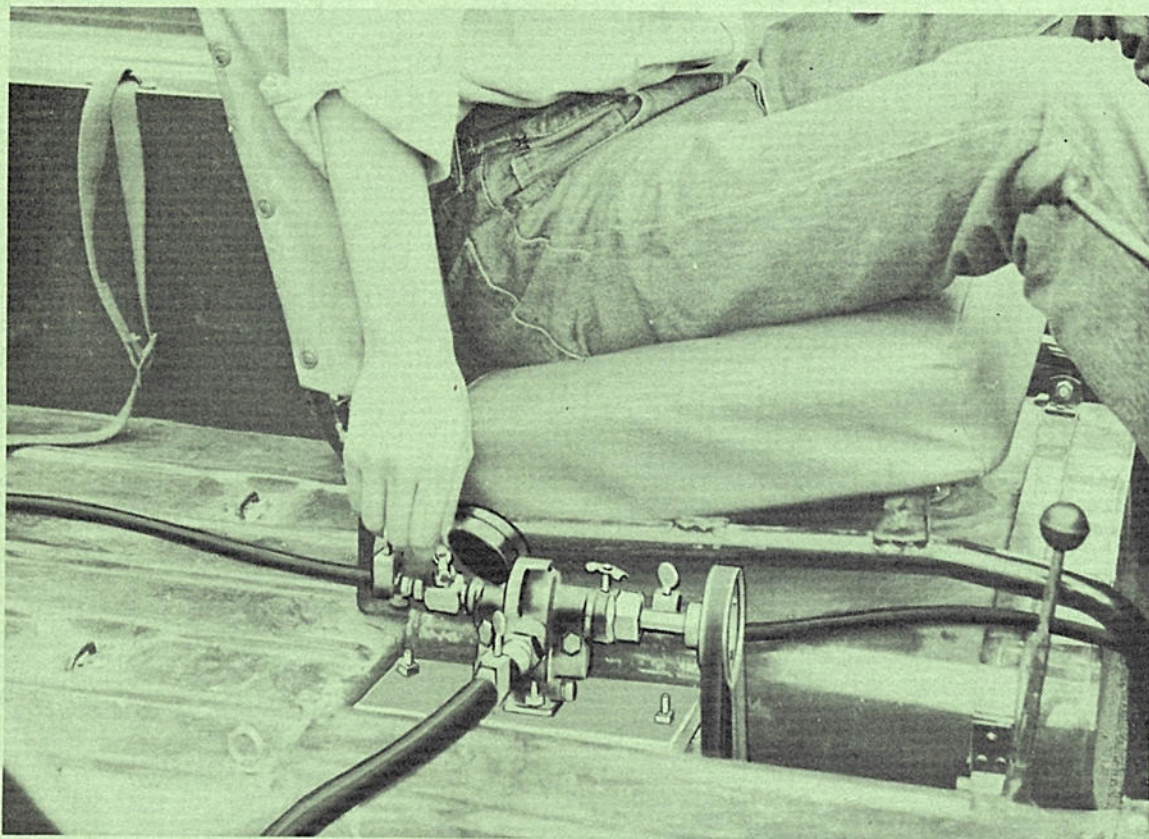
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Telephones: IVANHOE 1770; GLENVILLE 9243

WILLYS-OVERLAND EQUIPMENT BOOK

SPRAY NOZZLES, PUMP, BRASS VALVES AND FITTINGS MADE BY NATIONAL MANUFACTURERS



FINGER-TIP CONTROL

COMPLETE UNIT INCLUDES . . . BOOM WITH 13 STANDARD PRECISION NOZZLES . . . SUCTION, BY-PASS & BOOM 2-4D-RESISTANT HOSES . . . SUCTION LINE SCREEN . . . STAINLESS STEEL SHAFT & BRONZE GEAR PUMP WITH ALL FITTINGS . . . MOUNTING BRACKETS . . . CABLES WITH FITTINGS FOR SEAT CONTROL TO RAISE AND LOWER END SECTIONS . . . GAUGE . . . 4 BRASS VALVES . . . BOLTS, NUTS, FLAT & LOCK WASHERS (ALL CADMIUM PLATED) . . . BOX FOR MOUNTING PUMP WHICH CAN ALSO BE USED FOR TOOLS . . . METAL GUARD FOR DRIVE PULLEY.

BALDWIN MANUFACTURING COMPANY

835 E. 140th STREET

CLEVELAND 10, OHIO

Telephones: IVANHOE 1770; GLENVILLE 9243

NEWGREN ROW CROP AND FIELD SPRAYER (With Attachments for Tree, Fence Row, Ditch and Vegetable Spraying)



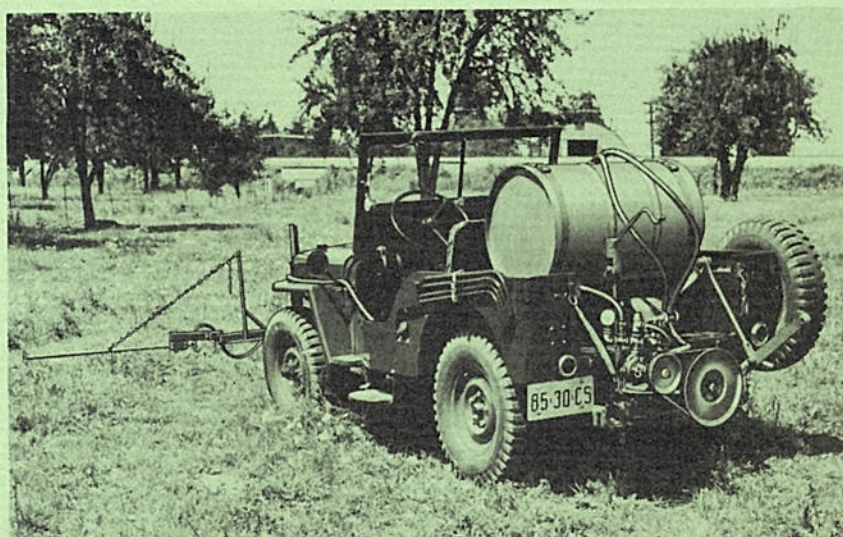
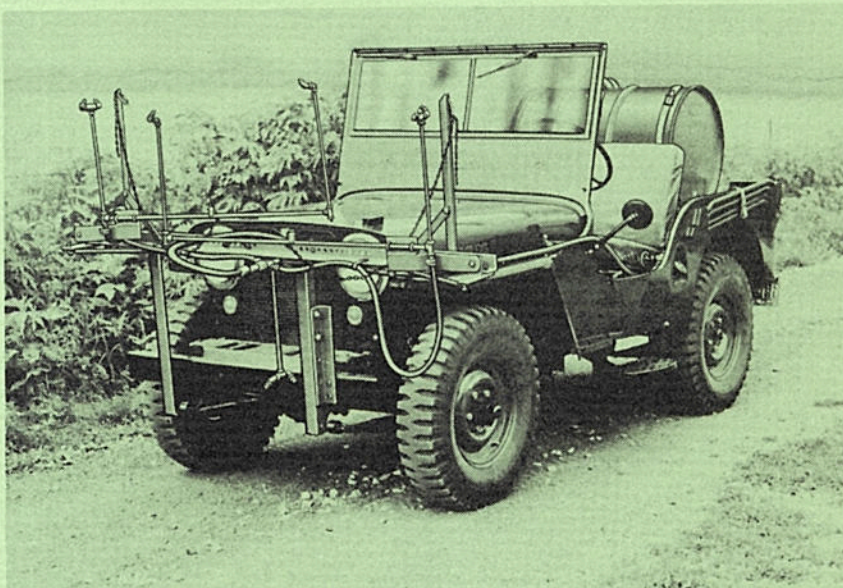
CHEMICAL WEED AND PEST CONTROL NOW MORE MODERN THAN EVER

NEWGREN-JEEP COMBINATION DOES A BETTER JOB FASTER

Here is spraying equipment designed to take full advantage of the speed, flexibility and versatility of the four-wheel-drive Jeep to accomplish all of the chemical-control benefits that have come to mean so much to the modern farmer.

This Newgren sprayer—thoroughly farm-tested over hundreds of thousands of acres of field crops and along hundreds of miles of fence rows and ditches—can be used for everything from field and row crops to trees, fence rows, vegetable crops, and even hog and poultry houses and dairy barns. Row crop attachments, which are standard equipment and adjustable for weeds or plant pests, are simply removed for field spraying. Hand gun attachments, available as extra equipment, give the flexibility required for tree, fence row and similar work and highway weed control. In all these uses, you have weed and pest killing efficiency that is combined with the fast, agile, dependable operation of the Jeep to get the spraying job done when it's needed and without loss of time in installing the equipment on the Jeep or getting back and forth to the scene of operation.

Owners of Jeeps with Newgren sprayers also have found that their equipment has many other uses beyond weed and pest control. The sprayer can be used, for example, for flushing radiators, pumping out cisterns, applying white wash and even pumping and hauling water for livestock.



THE NEWGREN COMPANY • BUTLER, PA.

WILLYS-OVERLAND EQUIPMENT BOOK

EQUIPMENT THAT IS DESIGNED TO Put the Spray Where It's Needed



Spraying weeds out of extremely foul corn field, not possible to cultivate previously because of wet weather.



Insect control on pear trees, using hand gun attachment—half turn of handle adjusts from long stream to fine mist.

FACTS AND FEATURES

MODEL HS-12—Heavy angle iron mounting brackets with $\frac{5}{8}$ in. steel tubing in boom. Boom ends fold up and over, and boom easily adjusted 12 to 50 in. from ground. Booms also spring loaded to swing around trees and posts. Boom width, 14 ft. Total spraying width, $15\frac{1}{2}$ ft. Nine fan spray nozzles with easily changed Adapto tips. No. 5 tip (5 gal. to acre) standard. Other tips available, giving $2\frac{1}{2}$ to 40 gal. per acre. Adjustable row crop attachments removable for field spraying. Three-way filtering of solution with removable nozzles replaceable Monel Metal screens at tank, in boom pressure line, and in each nozzle.

Heavy duty Fairbanks-Morse Type bronze gear pump with $\frac{3}{4}$ in. pipe size, operated from power take-off. Maximum capacity of 10 gallons per minute at power take-off speed of 500 r.p.m. Hand operated relief valve, with shut-off valve at driver's seat, gives variable pressure of 20 to 150 pounds. Specially developed composition hose, resistant to oil, acids and chemical solutions. Shipping weight 135 lbs.

ACCESSORIES

Available as Extra Equipment

M-21 single hand gun with two stainless steel discharge discs, $\frac{3}{4}$ and $\frac{5}{8}$ in. orifices, interchangeable. Operating mechanism in handle removed from chemical for longer life. Neoprene gaskets. One-turn of molded handle opens gun from shut-off through fog to full stream. Built-in nozzle with shut-off at head, allowing removal of cap to change discs without shutting off pressure. May be cleaned without disturbing adjustment.



Spraying fence rows to eliminate roadside weeds, also with hand gun attachment. Note how boom ends fold up and over. Ends of booms also fold back to clear trees and posts.

25 feet of special composition hose for use with hand gun
Barrel rack for Jeep with hold-down wires (shp. wt., 15 lbs.)

Tips for sprayer for coverage of $2\frac{1}{2}$ to 40 gal. per acre. State coverage desired.

Park, shade tree or fire gun nozzle attachments for hand gun.

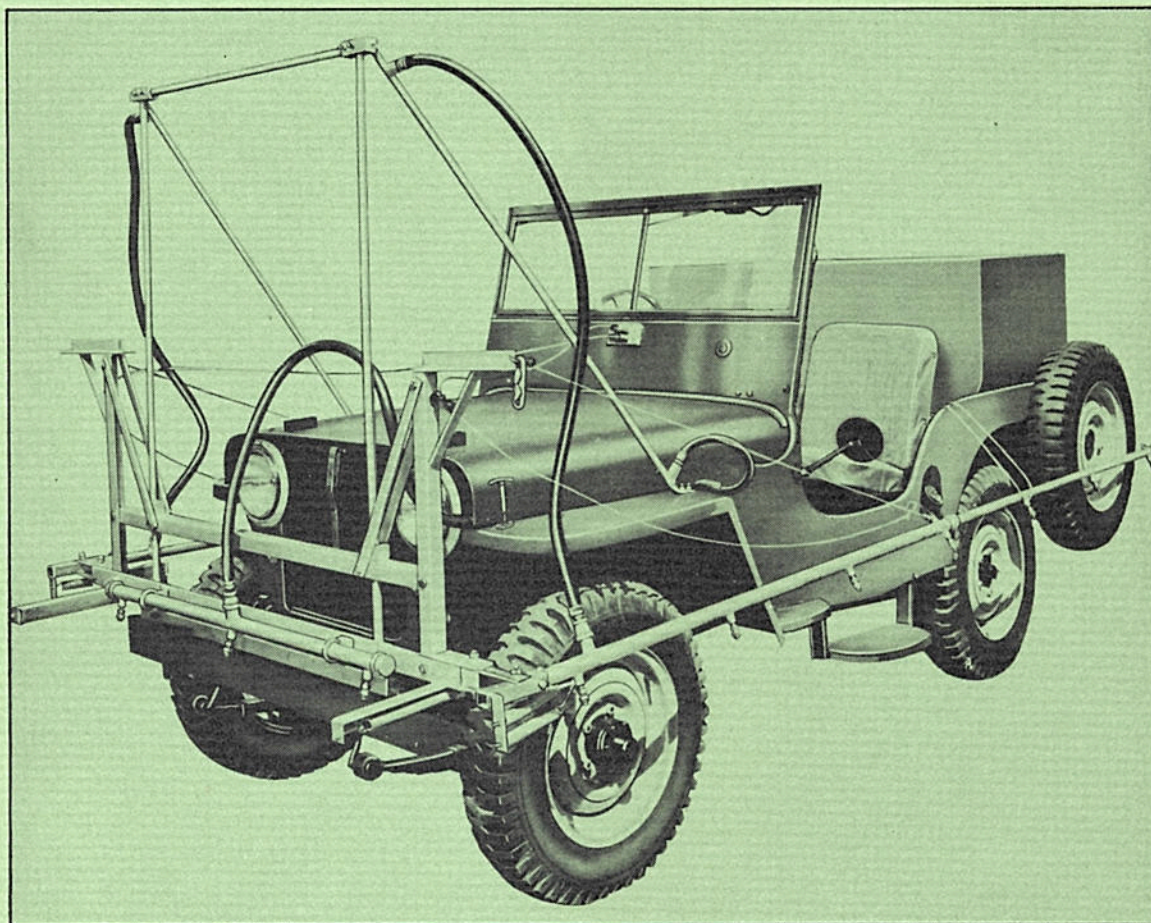
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THE NEWGREN COMPANY

Engineers and Distributors of Farm-Tested Implements
BUTLER, PENNSYLVANIA

BROYHILL FIELD SPRAYER

'JEEP'-MOUNTED
Model J-1



Features

This commercial field sprayer combines as many features as possible — sound engineering plus incorporation of the results of extensive field testing. The 27-foot boom, available in either steel or stainless steel, is not only adjustable for ground height, but can also be folded backward, forward, upward, or dropped below level position when spraying contours. Operator controls, by means of valves located at the right of his seat, the spray solution flow to each of the three boom sections. The boom is constructed so that it does not interfere with the driving lights or the operator's vision. Boom arms may be raised by cables located at the operator's seat. 125 gallon supply tank is provided and has been designed to fit across the bed of the 'Jeep' behind the operator. It is removable. Spray nozzles screw into individual sediment traps which are bronzed into the booms at 20" intervals. In the stainless steel boom, welds are secured by silver solder. The spray boom attaches to the 'Jeep' bumper without drilling extra holes. Fender braces are secured by two bolts. Neoprene hose is used throughout and is brought forward from supply tank through knockout plugs under the dash.

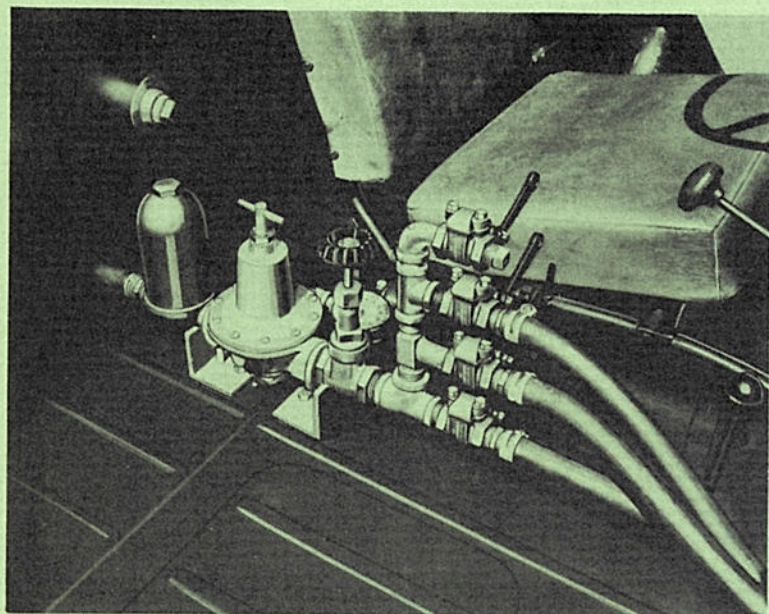
Model J-2 has same specifications as Model J-1 except that boom and boom arms are hydraulically controlled at the driver's position.

THE BROYHILL COMPANY

711 Pearl Street
SIOUX CITY, IOWA

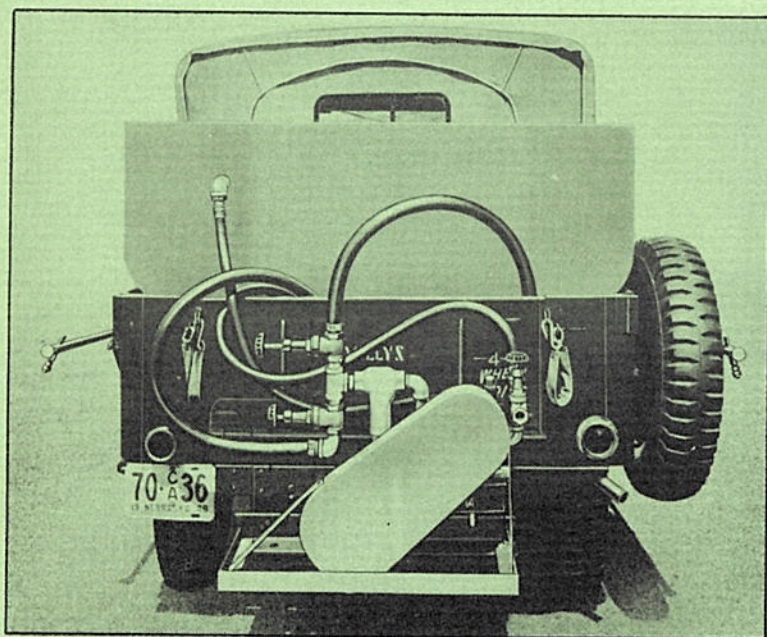
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HERE ARE IMPORTANT REASONS . . .



This interior view shows the boom control unit which consists of strainer, pressure regulator, pressure gauge, and valves to control the three booms. Top valve has been added to control additional hand gun when desired. The pressure regulator works in conjunction with the relief valve on the rear mounted pumping unit and provides for extremely fine pressure adjustment to allow complete control of spray volume.

. . . FOR BROYHILL SPRAY LEADERSHIP



Rear view shows tank and pumping unit installed. Notice that the pump is protected from damage by a heavy angle-iron bumper and shield. Pump unit carries a suction hose for filling through a pre-pump strainer and relief by-pass to the tank. Pump is a 1" bronze gear unit with external bearings for extended life. "V"-belt from power take-off operates unit. Note valve at pump for attaching hand spray hose. Tank has top well for filling and is recessed to provide carrying space for chemicals and hose.

THE BROYHILL COMPANY

**711 Pearl Street
SIOUX CITY, IOWA**

The MAHL JEEP SPRAYER

MODEL RJ



Spraying the Roadside — one of the many uses for the **MAHL JEEP SPRAYER**

The Mahl Sprayer comes complete with all fittings and hoses necessary. It may be mounted on either the front or rear of the Jeep. Front mounting is recommended for maximum visibility while rear mounting is recommended by leading authorities for pre-emergence spraying. The kit contains both engine driven or power takeoff pump mounting brackets. The Mahl Sprayer is the only sprayer which permits front or rear mounting at the operator's discretion.

Use the Mahl Sprayer for spraying fields, roadsides, fence rows or with its attachment, the hand sprayer, use it for spraying D.D.T. in barns, chicken coops or use it for spraying cattle, etc.

It will pay for itself in one season. It's the ideal unit for the grain and livestock farmer.

Write, Wire or Phone For
Information and Literature.

Sold Exclusively Through
Willys Distributors - Dealers

MAHL EQUIPMENT CO.
A DIVISION OF
Standard Iron & Wire Works, Inc.
2930 NO. 2nd STREET
MINNEAPOLIS, MINNESOTA
"Quality Products Since 1930"

MANUFACTURERS OF
Jeep Loaders • Push Off
Stackers • Sugar Beet Har-
vesting Equipment • Snow
Scoops • V Plows • Tractor
Loaders • Dozers • Sprayers

The Answer to Low Cost Weed Control



Booms are easily raised for spraying fence rows. Booms are hinged to permit Up, Down, Forward or Backward Swing and automatically return to spraying position.

SPECIFICATIONS:

CONTROL UNIT: Mounted on mirror bracket, operator controls pressure, agitation, and boom shutoff from seat.

PUMP: Oberdorfer all bronze gear pump having stainless steel shafts gives controlled pressure from 5 to 145 lbs. driven from either engine or power take-off.

NOZZLES: Monarch flat spray nozzles having built in strainer easily removed for cleaning.

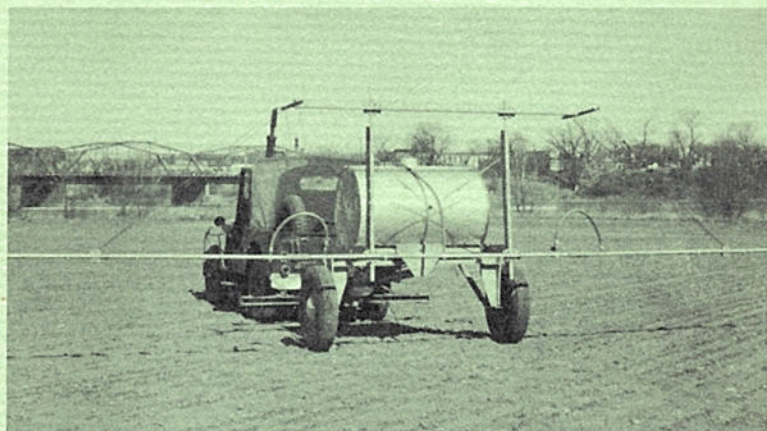
BOOMS: Non-corroding 1" aluminum pipe, with nozzle studs welded in for greater thread area.

STRAINER: Monel Metal line strainer, suction strainer and nozzle strainers give triple filtering.

AGITATION: Positive agitation controlled by operator with by-pass valve.

FRAME: All steel frame electrically welded, ruggedly built for farm use.

MOUNTING: Mount either front or rear with 4 bolts and 2 rods.



The Mahl Trailer Sprayer

is an ideal unit for the large grain or livestock farmer. It is a completely self-contained unit, powered by the Lauson 1½ horsepower gas engine. It has a 140 gallon tank which is sufficient to cover large areas. Its rugged trailer chassis is adjustable from 60 to 80 inches for all row crops. Its mobility and versatility permits its use in barns, buildings, orchards, etc. The sprayer may be removed from its trailer chassis. It will fit the bed of the Jeep Pickup Truck. The booms are controlled by a simple pull type valve which may be controlled from the cab of the Jeep.

Attachments Available

1. Hand sprayer with 25 feet of koroseal hose for spraying fence rows, orchards, shrubs and small weed patches. Use it to spray barns and chicken coop with D.D.T.
2. Special solid cone nozzles for spraying D.D.T.
3. Special speed up pump bracket for high gallonage spraying. (For power take-off only.)

Write, Wire or Phone For Information and Literature.

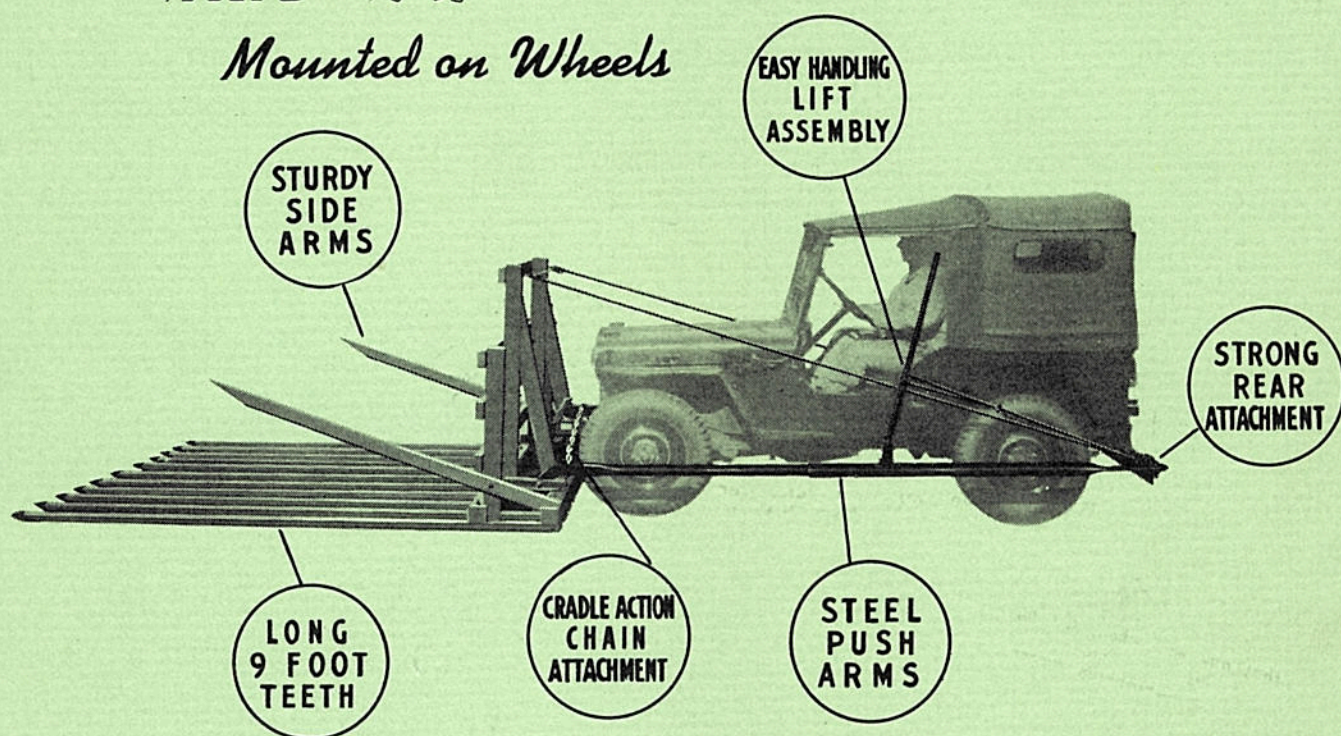
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MAHL EQUIPMENT CO.
A DIVISION OF
Standard Iron & Wire Works, Inc.
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"Quality Products Since 1930"

MANUFACTURERS OF
Jeep Loaders • Push Off Stackers • Sugar Beet Harvesting Equipment • Snow Scoops • V Plows • Tractor Loaders • Dozers • Sprayers

JEEP MODEL MIDWAY SWEEP RAKE

Mounted on Wheels



Ease of attachment and operation, durability, and flexible action are a few of the outstanding features which have received generous praise from many who have used the Jeep Model MIDWAY in the past.

A new improvement—the "MIDWAY" is now mounted on two sturdy swivel wheels which carry the full weight of the load. No extra weight on the Jeep.

The MIDWAY is not only the ideal low cost unit for the haying season, but it is also invaluable for all types of carrying around the farm during the balance of the year.

SPECIFY "JEEP MODEL"

Manufactured by

MIDWAY
LUMBER COMPANY
WHOLESALE & MANUFACTURERS
630 N. Prior Ave., St. Paul 4, Minn.

SOLD THROUGH
WILLYS-OVERLAND
DISTRIBUTORS ONLY

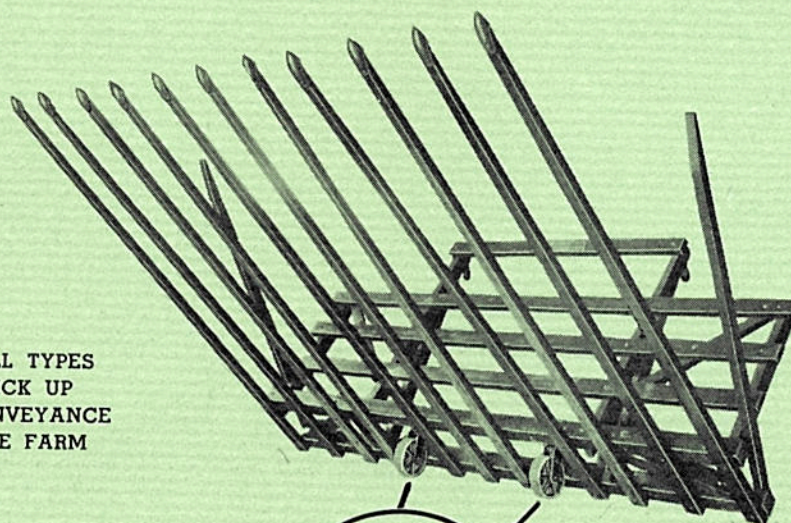
DEALERS AND DISTRIBUTORS
MAY REQUEST ADVERTISING
MATERIAL DIRECT

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JEEP MODEL MIDWAY SWEEP RAKE

1. SWIVEL TYPE LOAD-CARRYING WHEELS . . . two easy acting swivel wheels, securely mounted on the base, carry full weight of load.
2. CRADLE ACTION ATTACHMENT . . . the flexible front chain attachment allows the rake to follow the contour of the ground giving a clean sweep at all times. This flexible attachment allows the rake to absorb a high degree of shock without damage.
3. STRONG REAR ATTACHMENT . . . especially designed to fit the famous Jeep. This sturdy angle-iron attachment across the back can take plenty of punishment.
4. STEEL PUSH ARMS . . . strong steel push arms insure durability and long use.
5. EASY HANDLING LIFT ASSEMBLY . . . conveniently located for the driver, the easily operated lift handle and cable assembly raises the load to the correct carry position. Provides ample clearance for rapid conveyance.
6. SIDE ARMS FOR FREE SLING USE . . . these sturdy side arms keep load on rake.
7. WEATHER PROTECTED TEETH . . . the long 9-foot teeth are treated with a special wood preservative which retards weathering, always a problem in any climate.
8. METAL TIPPED TEETH . . . just one further refinement, all teeth are equipped with metal tips for protection against splintering.

FOR ALL TYPES
OF PICK UP
AND CONVEYANCE
ON THE FARM



NO EXTRA
WEIGHT ON
JEEP

FULL WEIGHT
OF LOAD
CARRIED ON
STURDY SWIVEL
WHEELS

SPECIFY "JEEP MODEL"

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MIDWAY
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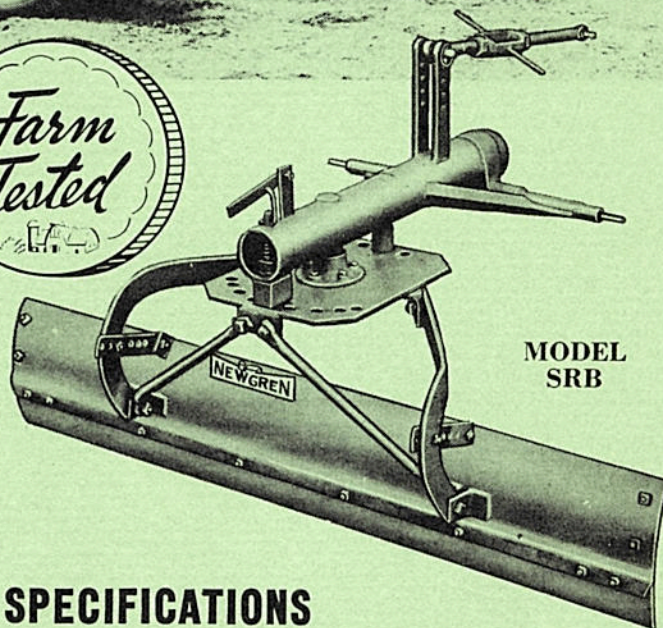
NEWGREN LIFT-TYPE TERRACING BLADE**4-POINT ADJUSTMENT****4-WHEEL-DRIVE TRACTION****FOR FASTER, EASIER RESULTS****ON THE BLADE**

- 1-CONTROL FOR ANGLE
- 2-CONTROL FOR PITCH

ON THE LIFT

- 3-CONTROL FOR DEPTH
- 4-CONTROL FOR TILT

These four quick adjustments, plus the four-wheel-drive traction, speed and maneuverability of the Jeep, give you a tool that can be operated faster and more efficiently in any possible task that may be allotted to a rear-end terracing blade. Operation in the field is at your fingertips. Down pressure of the Monroe Lift is adjustable up to 500 pounds. Three-point hitch or unhitch in a single minute. You'll have stabilized, hydraulically controlled operation and top-notch performance.

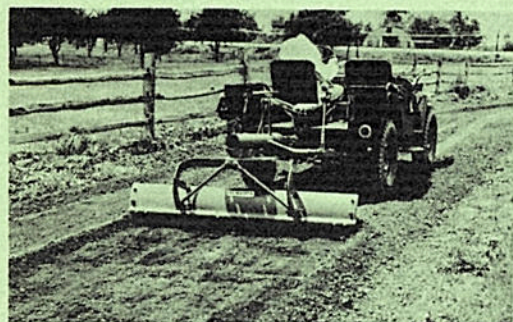
**MODEL
SRB****SPECIFICATIONS**

High carbon steel blade, 6 ft. long and $\frac{3}{8}$ in. thick. Full 360 degree turning radius. Pitch adjustment for ditching or slope cutting. Adjustable angle. Tilt adjustment, raising and lowering controls, and down pressure control on Monroe Lift. Alloy steel turn table spindle. Timken turn table bearing. Shipping Weight, 380 pounds. Newgren stabilizer bars recommended for best operation.

THE NEWGREN COMPANY • BUTLER, PA.

PRECISION AND STABILIZED OPERATION

FOR ALL THESE JOBS



Building Terraces
Ditches and Ponds
Road Maintenance
Landscaping

Cleaning Feed Lots
Grading, Finishing
Removing Overburden
Snow Removal



Even a casual inspection of this Stockland Terracing Blade, distributed by Newgren, shows you its business-like design and sturdy construction. The strong, tubular mounting, the easily accessible adjustments, and the heavy-duty blade give you stamina and durability that are as outstanding as the performance obtained with the Jeep equipped with the Monroe Hydraulic Lift.

Thanks to this motive power and method of control, the Newgren terracing blade has controlled penetration as well as raising and lowering at your finger tips. With the Jeep and Lift, the blade may be operated in corners and other "hard-to-get-at" places, and its usefulness extends to any job where surfaces are to be smoothed, scraped or cleaned. In practically all farm or field work, faster speeds are possible with the Jeep than with any ordinary tractor. You can switch from the terracer to any other implement in a few minutes and lose no time in getting back to the field.

HINTS FOR GOOD TERRACE BUILDING

Build outlet channel before beginning terrace. Make an outline guide for first cut by placing stakes at upper edge, and make a light first cut, starting from the outlet channel end to aid drainage in event of rain during construction. Do not attempt to cut too deep or too wide. This will eliminate excessive loose dirt. Move dirt onto the ridge in thin layers and not into large, unwieldy piles. Do not try to dig a deep channel in one pass. More trips with smaller cuts but at a higher speed will build a better terrace faster.



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

LIFT - TYPE HYDRO - GRADER AND TERRACER**HYDRAULIC FLEXIBILITY
FOR 101 ROAD AND FARM JOBS**

INCLUDING
GRADING AND RESHAPING
ROAD CONDITIONING
LEVELING AND SLOPING
HOLE AND DITCH FILLING
GENERAL MAINTENANCE
DITCHING AND IRRIGATION
MAKING TERRACES
LANDSCAPING
MAKING ANGLE CUTS
MAKING DIKES
—and many others

ALL WITH ONE MAN**FULL RANGE OF OPERATION AT YOUR FINGERTIPS**

Add all the features of this Newgren implement built by Stockland to the four-wheel-drive traction of the Jeep and the touch control and down pressure of the Monroe Hydraulic Lift, and you have a complete unit that will accomplish a multitude of road and farm jobs—quickly, easily and economically with but one man to do the full job.

With a full range of cutting and leveling angles, suction pitch and other adjustments, the rigid 8-foot blade has a detachable high carbon steel cutting edge. Yet no gears or hand wheels are needed for raising and lowering. Instead the entire blade and circle assembly, fixed to the frame, are operated by the Monroe Hydraulic Lift which, at a finger touch of the driver, raises and lowers the implement, giving down pressure that is adjustable up to 500 pounds, whenever needed.



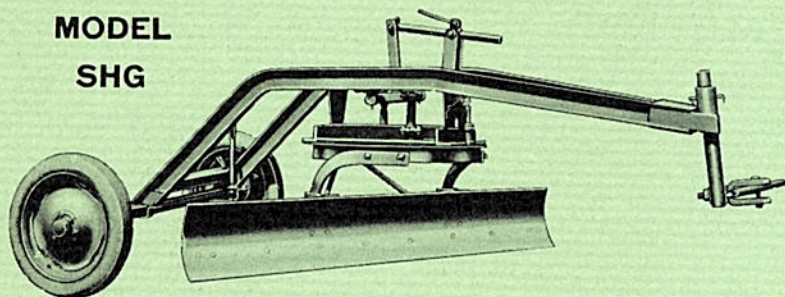
Farm Implements Especially "Tailored"
for Use with the Jeep Equipped with
the Monroe Hydraulic Lift

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

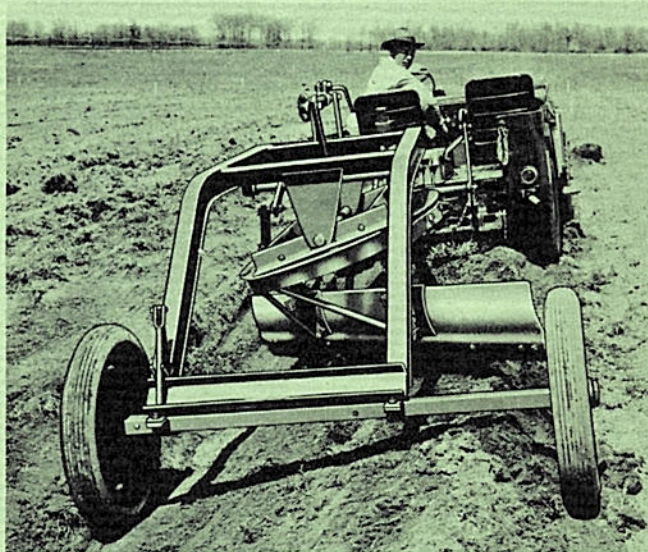
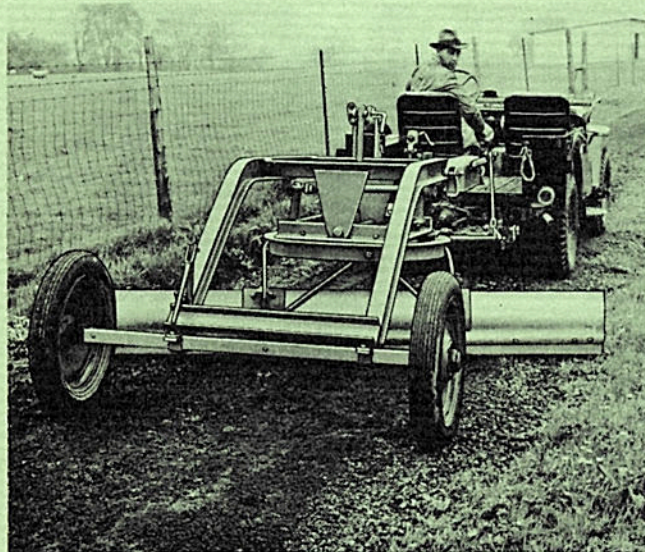
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MODEL
SHG



NEW EFFICIENCY WITH THE JEEP AND MONROE HYDRAULIC LIFT



Grading county road (left) and making field terrace (right) with the Newgren-distributed hydro-grader and terracer.

FEATURES AND SPECIFICATIONS

GRADER FRAME is built of angle and I-beam steel, welded and hot riveted.

CIRCLE ASSEMBLY is strong and well braced, equipped with ball and socket bearings and alemite grease fittings.

BLADE is $\frac{3}{8}$ in. thick and has detachable high carbon steel cutting edge, with highway standard punching.

AXLE is 2-inch square high carbon steel, has mechanical lateral shift with a range of 25 inches.

WHEELS are equipped with Timkin roller bearings and pneumatic tires 4.00 x 18.

DRAWBAR has lateral and vertical adjustment with a chain control which limits the depth of the blade.

ADJUSTMENT OF BLADE is positive and very rigid. Instead of gears and hand wheels common to pull type graders, the blade and circle assembly of the Hydro-Grader are fixed to the frame and the blade is raised and lowered by the Monroe Hydraulic Lift on the Jeep.

EIGHT-FOOT BLADE standard equipment, fully adjustable to all operating positions. Grader weighs 1,200 pounds. Ballast box on rear axle (available as extra) will hold 300 pounds of sand, giving operating weight of 1,500 pounds.

GRADER ATTACHED OR DETACHED IN 1 MINUTE to three-point linkage of Monroe Lift.

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BUTLER, PENNSYLVANIA