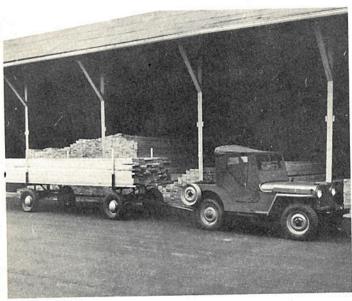


Some of the many Industrial Uses













The famous CARCRAFT

FOLDING CENTER SEAT



FITS RIGHT STAYS RIGHT

> THE ONE ACCESSORY

THAT ALL JEEP OWNERS WANT

SEE REVERSE SIDE FOR DETAILS

Machine & Supply Company

200 SOUTH EAST 29TH ST.

OKLAHOMA CITY 9, OKLAHOMA

BOX 4547

Features of the CARCRAFT

FOLDING CENTER SEAT



HEIGHT AND DEPTH SAME AS STANDARD JEEP SEATS

TAPERED CUSHIONS FOR RIDING COMFORT

EASY TO INSTALL OR REMOVE SNAPS INTO PLACE IN A MINUTE NO TOOLS REQUIRED

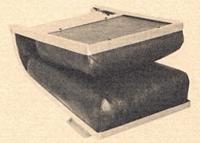
HINGED 3/4" HEAVY ALUMINUM ANGLE FRAMES

UTILITY POCKET REINFORCED WITH SHEET ALUMINUM BACK

TAILORED IN SAME DURABLE LEATHER FABRIC AND COLORS AS STANDARD JEEP SEATS

WEIGHT APPROXIMATELY 10 LBS.

FORWARD FOLDING PERMITS EASY ACCESS TO REAR arson



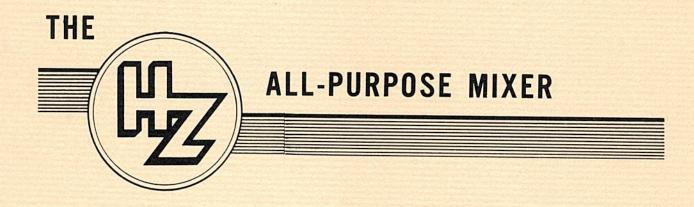
Machine & Supply Company

200 SOUTH EAST 29TH ST.

OKLAHOMA CITY 9. OKLAHOMA

BOX 4547

H&ZALL-PURPOSE MIXER



FARMERS . CONTRACTORS . . MASONS . HOME OWNERS

Savings From Use Far Exceed Nominal Cost

Efficient Design Assures Satisfaction

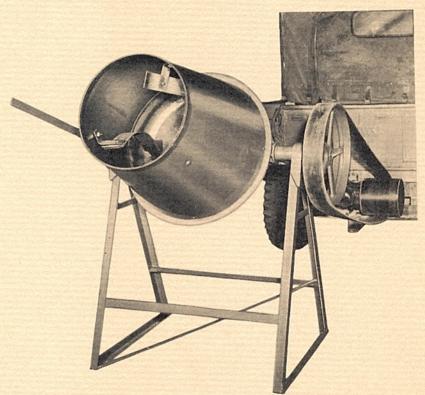
Engineered for

- Continuous
- · Profitable
- · Operation,
- Long Wear

Improved Design

Conveniently

- · Operated
- Transported
- · Cleaned
- Stored



HERTZLER & ZOOK PRODUCTS

Belleville, Penna.

H&Z ALL-PURPOSE MIXER

The H & Z Mixer has long been recognized for its quality and performance. Its size makes it popular with all classes of users. This low cost implement quickly pays for itself—often on the first job to which it is put.

Always in demand . . .

. . Use an H & Z mixer

Bowl Can Hang Inside Frame

Heavy Duty
Construction

Reinforced Castings
And Frame



Rigid, Welded Angle Iron Frame

Well Balanced Design

Holes in Base For Attaching

SPECIFICATIONS

DRUM: 23" diameter, 28" deep, heavy guage steel and bowl of heavy cast iron, 3 paddles for mixing.

OPENING: 16½" opening for easy loading and dumping, reinforced lip.

FRAME: Electro welded, steel, sturdily braced, allows vertical hanging of drum.

BEARINGS: Heavy duty anti-friction on drum, babbitt lined on yoke shaft, Zerk fittings.

CAPACITY: 21/2-3 cubic feet, quarter bag mixer.

PLATFORM: Welded steel plate, available for either gasoline engine or electric motor upon request.

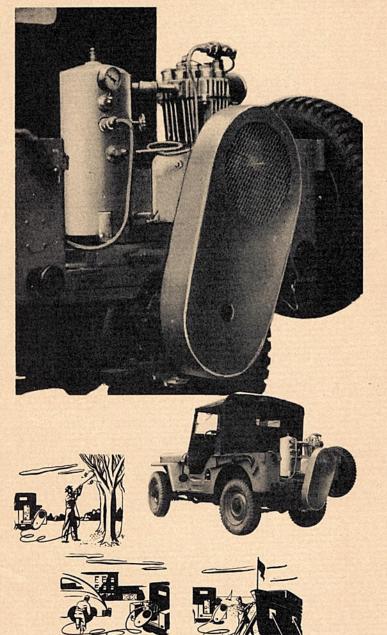
PULLEY: 16"x3" cast iron supplied as standard equipment with wood handle, 20"x3" supplied if ordered with motor.

POWER REQUIRED: 1/3 H.P. electric motor or 1/2 H.P. gasoline engine minimum.

HERTZLER & ZOOK PRODUCTS

Belleville, Penna.

The new model 216-S



Quincy Compressors

FOR MOUNTING ON Willy Overland Jeep

Use Compressed Air — ANYWHERE — any place a Jeep can travel, with the new Quincy Model 216-S Compressor. It is the same compressor with special valves in the cylinder head that was, and still is, being used by the U. S. Army Engineer Corps for the inflation of pneumatic bridge floats and on portable paint spray equipment for camouflage and D.D.T. spraying.

Any "Jeep" equipped with a power take-off becomes a portable air compressor unit simply by sliding the Quincy Compressor Model 216-S into the slots vacated by the rear seat. The entire assembly can be Jeep-installed by anyone in less than thirty minutes without the use of special tools or special knowledge.

The Quincy Compressor Model 216-S for Jeep mounting is of rugged construction and designed to withstand the hard usage and road shock it may be required to take "going ANYWHERE" with a "Jeep". For specifications see other side of this page.











Quincy

FOR FURTHER DETAILS WRITE

QUINCY COMPRESSOR CO.

Quincy, Illinois

Branch Offices: New York • Chicago • San Francisco • St. Louis





model 216-S for mounting on



SPECIFICATIONS

TYPE Model 216-S is a vertical air cooled single stage compressor with duplex cylinders.

PRESSURE Maximum continuous pressure 80 lbs. per square inch.

BORE AND STROKE 3" bore, 21/2" stroke.

PISTONS Light weight semi-steel fitted with three compression rings and one oil control ring.

CRANKSHAFT Drop forgings, 1045 S.A.E. steel, heat treated. Perfectly balanced, having integral counterweights.

RODS Lynite — with bi-metal precision insert bearings on crankpin end.

VALVES Ring type made of special valve steel. Each valve removable for inspection without disturbing other valves.

CYLINDER Cast enbloc of nickel chrome alloy iron. Deep vertical fins insure heat dissipation. Cylinder cast separate from crankcase.

CYLINDER HEAD Nickel chrome alloy iron. Cast separate from cylinder.

BEARINGS Timken main bearings.

LUBRICATION Constant oil level type.

CRANKCASE Totally enclosed dust-proof type, fitted with automatic breather valve.

COOLING Accomplished by blast of air from combination fan and fly-wheel directed upward along the cylinder by deep vertical fins

DRIVE Multiple V-belt.

OPERATING SPEED Maximum 1200 RPM - Minimum 400 RPM.

PISTON DISPLACEMENT 24.5 C.F.M. at maximum speed. 8.1 C.F.M. at minimum speed.

UNLOADER Quincy Type VD to regulate pressure from a minimum of 40 lbs. to a maximum of 80 lbs. Standard pressure setting 70 lbs. cut in — 80 lbs. cut out.

AIR CLEANER Each unit is provided with an Air Maze Inlet Filter to filter out all dust and foreign matter from compressor intake.

AIR RECEIVER The air receiver with which this unit is provided is equipped with a pressure gauge, safety valve, drain cock and tank shut-off valve — all located so as to be easily accessible.

INSTALLATION

Compressor and tank assembly are mounted on a substantial steel base.

- 1. Remove rear seat of Jeep and slide complete unit into seat slots.
- Attach power take-off pulley and the two V-belts furnished.
- 3. Fasten belt guard to bracket (A Quincy Safety Feature).
- Fill compressor crankcase with lubricating oil, and the Quincy Compressor is ready for operation.



Performance... BACKED BY NATIONWIDE AUTHORIZED SERVICE

To assure greater satistaction of Quincy Compressor users, careful attention has been devoted to setting up Authorized Service Depots on a nationwide basis. Adequate stocks of genuine parts for the wide range of sizes and types of compressors manufactured by the Quincy Compressor Co., are maintained at these Depots. Quincy users, whether in their own plant or as part of a product, are assured of prompt, dependable service.



QUINCY COMPRESSOR CO.



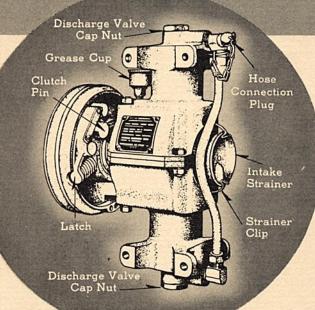
Quincy, Illinois

Branch Offices: New York • Chicago • San Francisco • St. Louis

This page discontinued Jan. 1950 (2d supplement 10/1/49

AIR WHEN...WHERE...

as you need it__



WESTINGHOUSE "T-1" Air Compressor

on Willys

Wire, Write, Call

AIR COMPRESSORS & MOTORS

2536 St. Clair Avenue Cleveland 14, Ohio

"T-1" Air Compressor Installs in 30 minutes on Willys JEEP

- Delivers "OIL FREE AIR." Cannot pass oil since the only lubrication necessary is provided by one grease cup.
- Simple in operation and requires a minimum of maintenance.
- Operates efficiently under all climatic conditions—from 40° F. below zero to 130° F. above zero.
- Has automatic throw-out clutch flywheel.
- Approximate weight 23 pounds.

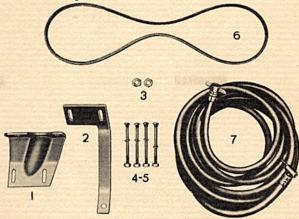
Automatic Clutch—To start the compressor, slip the clutch pin into hole in the drive pulley. To stop, accelerate the engine until the clutch pin throws out.

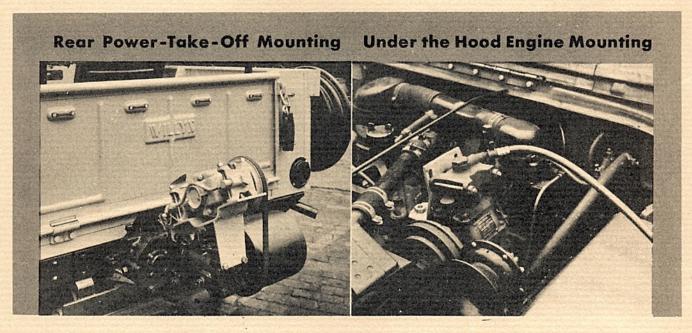
A Source of Air for

Tire Inflation Greasing
Spraying (Paint, Insecticide)
Road Service (Cleaning gas lines—carburetor)
Airport Service

- Displacement—3.27 CFM at 600 RPM. Where operating periods are of short duration, and service relatively light, compressor may be operated at 1200 RPM with 6.54 CFM displacement.
- Suggested Operating Pressure—90 PSI (Intermittent Service).

Complete Installation Kit



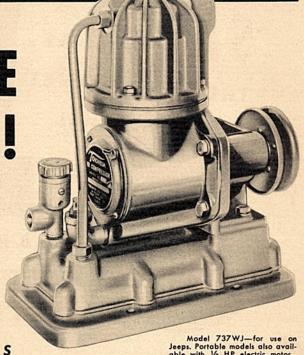


OKHEIM AIR COMPRESSOR FOR JEEPS

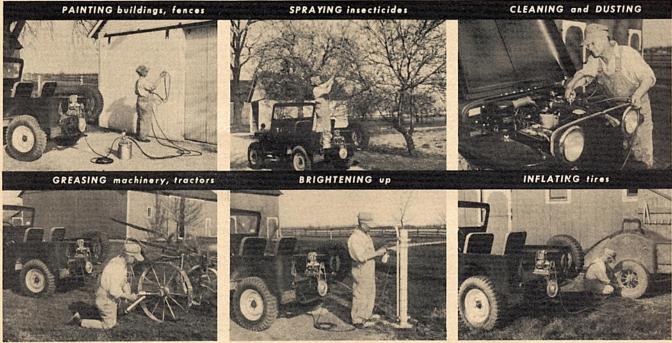
ALL-PURPOSE POWER TOOL!

This Tokheim compressor, easily mounted on your Jeep, will furnish the necessary air power to simplify work on farms, in garages, shops and for contractors. It will inflate tires; save countless hours in luprication and painting; speed up spraying operations; remove moisture, dust and dirt from motors and machinery. Yes, you'll do all these jobs better, faster -and have more time for productive work. A real low-cost investment!

PROVIDES AIR POWER FOR MANY JOBS



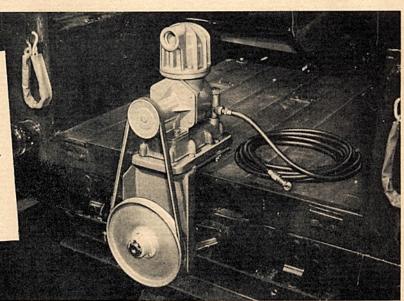
Model 737WJ—for use on Jeeps. Portable models also available with 1/3 HP electric motor 11/2 HP gasoline engine.



PUMP COMPANY TOKHEIM TANK AND

> GENERAL PRODUCTS DIVISION . FORT WAYNE 1, INDIANA FACTORY BRANCH: 1309 HOWARD ST. . SAN FRANCISCO 3, CALIFORNIA







APPROVED ACCESSORIES FOR USE WITH MODEL 737WJ AIR COMPRESSOR



Model 723 Tank

Two-gallon capacity. For use with Model 711 Spray Gun. Has Regulator and Gauge for control of pressure. "C" type clamps hold head on shell. Tank can be easily cleaned by removing clamps. Head fitted with safety valve, air inlet and outlet. If Regulator and Gauge not desired, order Model 721.



Pressure feed. One-quart cup. For light duty painting or finishing. Uses small amount of air. Sprays light or heavy liq-uids. Easy to operate. Bleeder type, for use in air lines without pressure regula-



Model 725 Grease Gun

Powerful, exceptionally fast. Weighs only 5 lbs., perfectly balanced. Delivers precisely measured amount of grease with each shot. Holds 1½ lbs. of grease. Handles all kinds of chassis lubricants. Easy to operate.

Model 719 Dusting Gun

Small—compact—fits in palm of the hand. Air valve operated by closing hand and squeezing. Can be used in close quarters without kinking hose. Has ¼" male pipe thread connection for attachment to air hose.





Model 733 Spray Rod

For spraying insecticides; cattle sprays; 2, 4-D; vegetable, crop and fruit tree solutions from either Model 721 or 723 tank. Six feet long. Of sturdy aluminum. Light weight. Easy to operate. Spring loaded control valve. Brass nozzle. With 3/2* nipple.

GP-1118

Printed in U.S.A.

These five accessories will make your Tokheim compressor the "handiest tool you own". They have low initial cost, are built for long life, will quickly pay for themselves in savings of time and labor.

Included as standard equipment: 20-ft. rubber-covered air hose, automatic air chuck, V-belt, mounting bracket, cap screws, and 9" pulley. Complete with instructions ready to install on rear power take-off. Shipping weight 42 pounds.

MODEL 737WJ SPECIFICATIONS

Air-cooled single cylinder, belt-driven, piston type (no diaphragm) compressor; 3" bore by 1/2" stroke; 3½ C.F.M. displacement; splash-type lubrication; safety, blow-off valve opens at 90 lbs. pressure-

SOLD THROUGH WILLYS DISTRIBUTORS AND DEALERS FOR FURTHER INFORMATION WRITE-

TOKHEIM OILTANK AND PUMP CO.

- GENERAL PRODUCTS DIVISION .
 - FORT WAYNE 1. IND.
- Factory Branch: 1309 Howard St. .
- San Francisco 3, Calif.

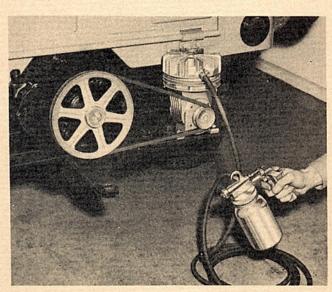
DAPCO

GUARANTEED to produce over 100 pounds air pressure!

Jeep approved by WILLYS-OVERLAND engineering dept. COMPRESSOR

The Worlds Most Powerful Air Compressor...





The same Dapco compressor supplied to the armed forces in combat areas overseas throughout the war is now adapted to the rear power take-off of the world famous Willys 'Jeep.'

Ideal for tire inflation — paint spraying — spraying insecticides for both plants and animals — operating pneumatic grease guns and small pneumatic tools — air-cleaning machinery and equipment, etc.

SPECIFICATIONS

Extremely Compact . . . 9" high and 7" wide overall.

Outstandingly Efficient . . 3 cubic feet per minute at atmospheric pressure. Minimum pressure: 100 pounds per square inch.

Always Oil-Free Air . . . No crankcase with oil and no piston rings to wear and pump oil. In fact, no lubrication necessary!

COMPRESSOR COMPLETE . . .

With 15 ft. of air hose and detachable air chuck, mounting bracket, quick-fit pulley and belt.

DAPCO PRODUCTS, INC. DEFIANCE, OHIO

DAPCO COMPRESSOR SPECIFICATIONS

Precision Machined—Tolerances range from + .00015 minimum to + .005 maximum. New, war-developed processes, such as deep-freezing material at 40° below zero to flame softening of special areas on hardened surfaces, are used to assure long life and maximum efficiency.

Lubrication—Three grease-packed sealed ball bearings. No lubrication required. Cylinder Head Compressor Body—Die cast aluminum with deep radiating fins for rapid heat elimination, allows the compressor to produce air 75° to 100° cooler than many other types and makes of air compressors.

Piston-High tensile strength aluminum.

Oil-free Air—Absolutely oil-free air at all times. No oil filter or collectors needed in the air line.

Relief Valve—None needed due to patented design, which is the reason why compressor can never explode.

CHART OF AIR OUTPUT AT RATED SPEEDS

ACTUAL C.F.M. AT FOLLOWING PRESSURES								
Compressor Speed:	Free Air	20 Lbs.	30 Lbs.	40 Lbs.	50 Lbs.	60 Lbs.	80 Lbs.	100 Lbs.
1725 RPM	2.7	2.23	1.94	1.7	1.44	1.24	.84	.50
2000 RPM	3.08	2.53	2.23	1.95	1.70	1.49	1.09	.64
2250 RPM	3.4	2.81	2.55	2.2	1.95	1.67	1.27	.81
2500 RPM	3.7	3.16	2.76	2.46	2.13	1.92	1.47	.95



DAPCO MODEL 172

PAINT SPRAY GUN

For better, more accurately controlled spraying

Will efficiently spray all kinds of paint, lacquer, whitewash, mothproofing materials, cleaning fluids, all kinds of insecticides, DDT powder and liquid solutions. Sturdy, well built of light weight aluminum, with easy-working trigger and comfortable hand grip that eliminates hand and arm fatigue.

INTERCHANGEABLE AIRCAPS

Two aircaps are supplied with each paint spray gun: one provides a wide fan-shape pattern, the other a 45° cap for painting floors and ceilings. (A round spray cap is available for spraying small parts and narrow surfaces.)

DAPCO MODEL 173

POWER GREASE GUN

Pays for itself many times in savings of time, labor and money!

POWERFUL: 4000 pounds working pressure. More than enough to lubricate any fitting that is not frozen—yet not so powerful as to damage special fittings. Air hose carries only the air line pressure, while the 4000 pounds grease pressure is built up inside the gun itself. Holds 1½ pounds of lubricant.

PRECISION-BUILT: The pressure cylinder is lapped to one-half thousandth of an inch (.0005"). Mirror finish insures long life and a uniform amount of grease each time the discharge button is pressed. Delivers as much grease per shot as large, costly units.

Ideal for use ON THE FARM IN GAS STATIONS IN GARAGES IN INDUSTRY



DAPCO PRODUCTS, INC.

Formerly Defiance Alloyed Products Company

Manufacturers of Portable Air Compressors and Air Devices
DEFIANCE, OHIO

FARDSWORTH MIDDLEKAUFF

105 Cubic Foot compressor installation

and TRUCK Jeep

SCHRAMM MODEL 105

105 CUBIC FEET OF AIR AT 100 LBS. PRESSURE . . . ANYTIME, ANYWHERE

SPECIFICATIONS AND DATA

General: Schramm Model 105 is a four cylinder, single stage air compressor. It is a vertical, liquid cooled unit, with separate head and oil pan. The cylinders and top half of the crankcase are cast integral and contain the five main crankshaft bearings and the three camshaft bearings, the intake valves and the intake manifolds. The cylinder head contains only the discharge valves, the built-in aftercooler and the jackets for liquid cooling. The lubrication lines are drilled in the compressor block casting.

Capacity: Model 105 has four cylinders with 3½6" bore, 4½" stroke, and piston displacement of 157 c.f.m. at 1320 r.p.m. Actual free air delivery is 105 c.f.m. at 100 lbs. gauge pressure.

Crankshaft: Drop forged, heat treated steel, mounted on five main bearings, drilled for the passage of oil from the main bearings to the crank pins.

Pistons: Cast iron, weighed and matched for balance. Each piston is fitted with two compression and two oil control rings. Connecting Rods: Heat treated, drop forged steel, with steel backed, babbitt lined, precision type shells in the crank pin end and bronze bushing for the piston pin.

Intake Valves and Unloaders: Poppet type cam operated. Patented air operated unloading device is a part of valve mechanism and holds valves wide open during the entire unloading period.

Discharge Valves: Steel discs, tempered and lapped flat, spring seated on manganese bronze. Low lift type in readily removable cages, in cylinder head, directly above and nearly covering piston area.

Pilot Valve: Adjustable. Controls loading and unloading of the compressor, and slow engine speed when unloaded. An adjustable check valve permits engine acceleration before compressor is loaded.

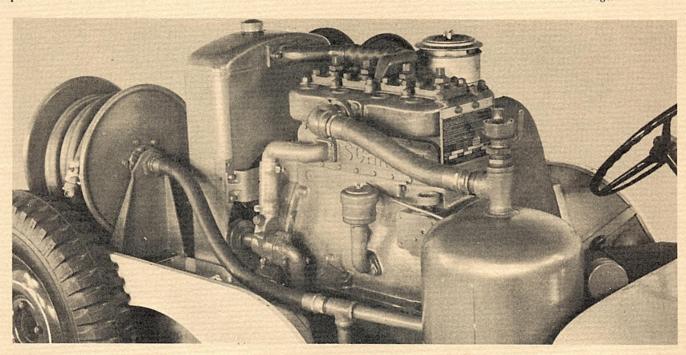
Engine Slow-Down: Automatically reduces the engine speed while compressor is unloaded. It operates carburetor throttle.

Lubrication: Gear type oil pump forces oil under pressure to main bearings, camshaft bearings, crank pins and piston pins, and fills crankcase with an oil fog that lubricates pistons and valve mechanism.

Cooling: Cylinders and heads are surrounded by jackets through which cooling liquid is forced by a pump. Liquid is cooled by radiator with fan.

Air Receiver: 14" x 26". Built to A.S.M.E., National Board and Massachusetts Codes and inspected for compliance therewith.

Accessories: A Safety Valve, Fusible Plug, Pressure Gauge and Drain Cock are furnished for Receiver. Compressor is equipped with Oil Bath Air Cleaner and Oil Pressure Gauge.



DESIGNERS AND BUILDERS OF MOTOR VEHICLE EQUIPMENT ESPECIALLY FOR WILLYS-OVERLAND JEEPS AND TRUCKS

105 Cubic Foot compressor installation for the universal Jeep

SCHRAMM MODEL

GENERAL DESCRIPTION

While this Compressor Unit has a wide variety of uses in both small and large plants its most useful functions derive from the ability of the "Jeep" to negotiate any terrain. There-by a dependable air supply becomes available in remote places away from power sources.

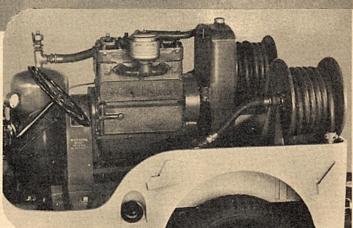
The Schramm Model 105 Compressor is a compact, four cylinder, single stage cycle Unit built for full load continuous service and was particularly designed for front power take-off drive on the Willys "Jeep". This Compressor is completely self-contained and the sturdy, well balanced construction results in a smooth, vibrationless compression of air at the maximum volume-pressure rate of discharge with lowest possible power in-put requirements from "Jeep" engine.

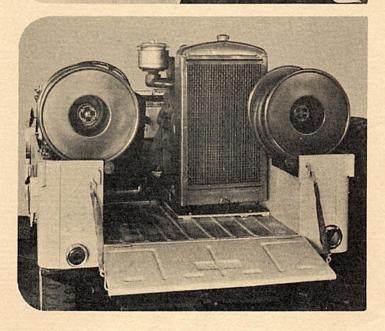
As may be seen in the illustration at the right, the Compressor is bolted to a heavy adjustable base which in turn is rigidly attached to the "Jeep" frame by means of suitable reinforcing crossmembers and frame brackets. No part of the load is imposed upon the body.

The drive is completely enclosed for protection of the operator and from elements and is accomplished by a matched set of 6 "V" belts driven from a specially designed power take-off sheave. Careful adjustment of engine slow-down and governor insures correct full load and idling speeds. Belt tension adjusted by positive take-up.

The completed installation is carefully inspected and tested and final adjustments of unloading







system and all operable functions assure maximum results. The Unit, as delivered, is ready for work.

Twin Hose Reel installation is optional equipment and each accommodates 50 or more feet of 3/4" air hose. Standard full top, heater and other regular accessories may be installed without interference.

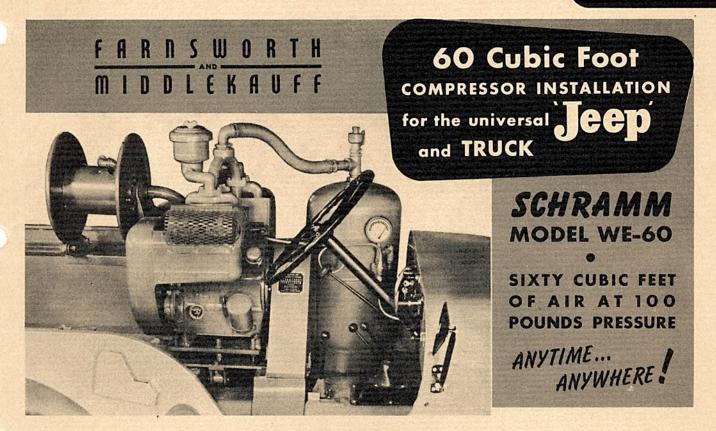
FARDSWORTH

MIDDLEKAUFF

IN CORPORATED

1535 KETCHAM AVENUE - TOLEDO 8, OHIO

FOR COMPLETE DETAILS AND INFORMATION WRITE FARNSWORTH AND MIDDLEKAUFF INC.



SPECIFICATIONS AND DATA

General: Schramm Model WE-60 is a four cylinder, single stage cycle compressor. Cylinders cast in pairs, 90 degree "V" type, L-Head with integral intake and discharge ports. The cylinder head design permits mounting of discharge valves directly over pistons. Separate intake and discharge passages are provided. Both cylinder blocks and heads have deep cast fins to promote rapid dissipation of heat. Cylinders are bolted to crank case which contains crank shaft, cam shaft and lubricating system.

Capacity: Model WE-60 has four cylinders with a 3.25" Bore and 3.25" Stroke and a Piston Displacement of 112.34 Cubic Feet at 1800 R.P.M. Actual Air Delivery: 60 C.F.M. at 100 lbs. pressure.

Crank Shaft: Drop-forged, heat-treated steel. Balanced statically and dynamically. Mounted on Timken taper roller bearings.

Cam Shaft: Heat-treated, drop-forged steel. Double lobed cams

and fuel pump eccentric finely ground and integral with shaft.

Pistons: Aluminum alloy weighed and matched for balance. Each

piston is fitted with two compression and two oil control rings.

Connecting Rods: Heat-treated, drop-forged steel with spun-in babbitt bearing at crank pin and bronze bushed for piston pin.

Intake Valves and Unloaders: Poppet type cam operated. Patented air operated unloading device is a part of valve mechanism and holds valves wide open during the entire unloading period. Discharge Valves: Ground tempered steel discs, spring seated on manganese bronze. Low lift type in readily removable cages, in cylinder head, directly above and nearly covering piston area:

on manganese bronze. Low lift type in readily removable cages, in cylinder head, directly above and nearly covering piston area: Pilot Valve: Adjustable. Controls loading and unloading of the compressor and regulates flow of air to the engine slow-down. An adjustable check valve retards the air return to atmosphere and allows the engine to speed up before the compressor loads.

Engine Slow-down: Automatically reduces the engine speed while compressor unloads. It operates carburetor throttle valve.

Lubrication: Gear type oil pump forces a stream of oil to each rod bearing and fills crank case with an oil fog which lubricates cylinders, cam shaft, main bearings and valve mechanism.

Cooling: Deeply finned cylinders and heads are surrounded with shrouds conducting air blast from flywheel blower to all parts. Air Receiver: 14" x 26". Built to A.S.M.E., National Board and Massachusetts Codes and are inspected for compliance therewith. Accessories: A Safety Valve, Fusible Plug, Pressure Gauge and Drain Cock are furnished for receiver. Compressor is equipped with an Oil Bath Air Filter, Oil Pressure Gauge and Oil Filter.



DESIGNERS AND BUILDERS OF MOTOR VEHICLE EQUIPMENT ESPECIALLY FOR WILLYS-OVERLAND JEEPS AND TRUCKS

60 Cubic Foot COMPRESSOR INSTALLATION for the universal Jeep and TRUCK

SCHRAMM MODEL WE-60

GENERAL DESCRIPTION

While this Compressor Unit has a wide variety of uses in both small and large plants its most useful functions derive from the ability of the "Jeep" to negotiate any terrain. There-by a dependable air supply becomes available in remote places away from power sources.

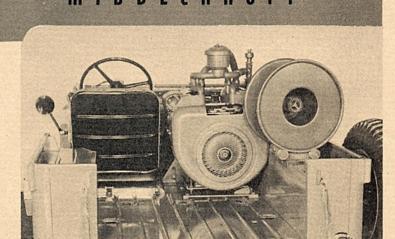
The Schramm Model WE-60 Compressor is a compact, four cylinder, single stage cycle Unit built for full load continuous service and was particularly designed for front power take-off drive on the Willys "Jeep". This Compressor is completely self-contained and the sturdy, well balanced construction results in a smooth, vibrationless compression of air at the maximum volume-pressure rate of discharge with lowest possible power in-put requirements from "Jeep" engine.

As may be seen in the illustration at the right, the Compressor is bolted to a heavy adjustable base which in turn is rigidly attached to the "Jeep" frame by means of suitable reinforcing cross-members and frame brackets. No part of the load is imposed upon the body.

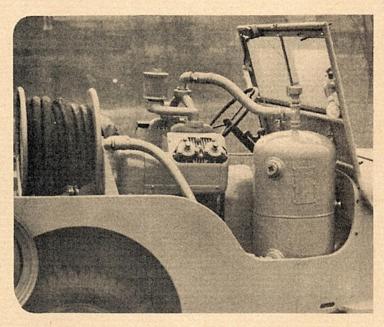
The drive is completely enclosed for protection of the operator and from elements and is accomplished by a matched set of 4 "V" belts driven from a specially designed power take-off sheave. Careful adjustment of engine slow-down and governor insures correct full load and idling speeds. Belt tension adjusted by positive take-up.

The completed installation is carefully inspected and tested and final adjustments of unloading system and all operable functions assure maximum results. The Unit, as delivered, is ready for work.

The Hose Reel installation is optional equipment and accommodates 50 or more feet of 34" air hose. Standard rear seat, heater and other regular accessories may be installed without interference.



Note compact mounting of Compressor and Reel



Shows Air Receiver and Hose Reel Connections

FARDSWORTH

MIDDLEKAUFF

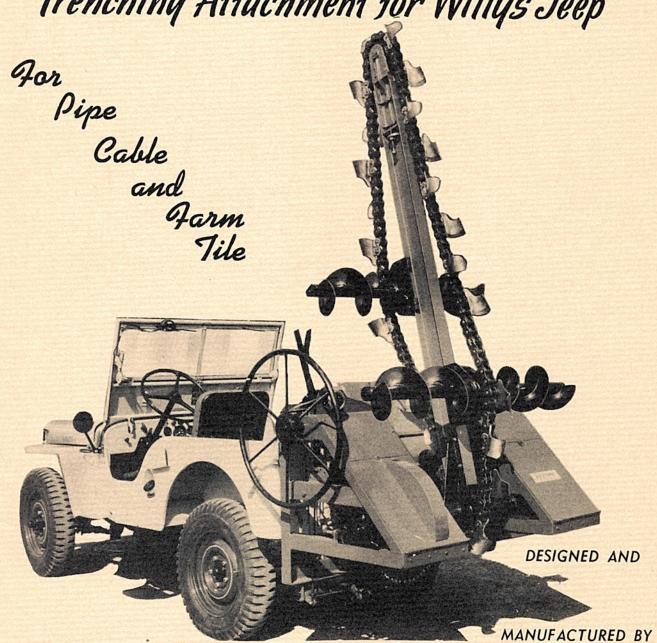
I N C O R P O R A T E D

1535 KETCHAM AVENUE - TOLEDO 8, OHIO

FOR COMPLETE DETAILS AND INFORMATION WRITE FARNSWORTH AND MIDDLEKAUFF INC.

eep-A-Trench

Trenching Attachment for Willys Jeep



AUBURN MACHINE WORKS Inc.

AUBURN, NEBRASKA

OFFICE-2023 HARNEY STREET, OMAHA, NEBRASKA

SOLD BY WILLYS-OVERLAND DISTRIBUTORS AND DEALERS

The Jeep-A-Trench was developed due to its designers seeing the need for a small trenching machine that had good mobility between jobs. They noticed that trenches were in many cases being made much wider than necessary for the laying of small pipe, such as gas and water, as well as underground cable, necessitating a great deal more back-filling, whereas a trench more near the size of the one needed would be more suitable. Due to the many uses the Willys Civilian Jeep is being put to, it was selected as the power unit.

By its use for the power unit, the purchaser receives the advantage of volume vehicle production and the ready availability of parts. That, with the standardization of the wearing parts of the attachment and the long test runs that it has been subjected to, makes it unlikely of being out of service for a long period of time.

The attachment, when installed, is driven with the Power Take-Off. A gear reduction to the wheels gives it slow forward movement. The speed of the forward movement is controllable by the operator from neutral up to 300 feet per hour. Depth is controlled by a hand wheel.

The installation does not interfere with the roadability of the Jeep, giving the advantage of being able to travel to widely separated jobs with the minimum loss of time. Upon arrival it is a matter of minutes until the machine can be in operation, and upon finishing can, within the same length of time, be back in roadable position, making it profitable to make even short runs, such as water and gas connections from street to building.

SPECIFICATIONS

CONSTRUCTION

The framework of the JEEP-A-TRENCH is all steel, electrically welded.

BEARINGS

Automotive type sealed bearings, easily replaced.

UNIVERSAL JOINTS

Spicer Needle Bearing type.

OVERLOAD SPRINGS

Furnished to give Jeep normal riding position.

DIGGER BITS AND ELEVATORS

Special design of alloy steel, giving long life before sharpening.

SAFETY

Attachment is equipped with safety shear pins, preventing damage to mechanism.

SPEED

Controlled by hand lever — capacity up to 300 feet per hour.

PROPULSION

Through the wheels except when operated by winch and cable attachment.

EASE OF OPERATION

Operator from one position has control of the clutch, speed of the vehicle, and the depth of the trench.

INSTALLATION

Installation can be made locally or will be made at the factory if desired.

MODELS AND TRENCH SIZE

Wheel propelled	Width	Maximum Depth
W65	6"	5'
W66	6"	6'
W85	8"	5'
W105	10"	5'
Cable propelled		
(200 ft. cable sup	plied)	
C65	6"	5′
C86	6"	6'
C85	8"	5'
C105	10"	5′
Both Wheel and Cab	le propelled	
(200 ft. cable sup	The state of the s	
WC65	6"	5'
WC66	6"	6'
WC85	8"	5′
WC105	10"	5'

WEIGHT

Approximately 1100 pounds.

APPROVAL

Willys-Overland engineering approval of the installation.

Place orders by model number with Auburn Machine Works, Inc. 2023 Harney St., Omaha, Nebraska. Literature furnished upon request.

FRONT BUMPER WEIGHT 7.00x15 TIRES RECOMMENDED

The Jeep or its equipment is not furnished with the attachment. Prices and Specifications subject to change without notice.

Patents applied for.



WORMAN Full "Jee-Cab"

This top has been thoroughly tested and specifications have been carefully checked and approved by the Engineering Department of the Willys-Overland Motors, Inc.
The "Jee-Cab" is constructed with heavy gauge Aluminum with sufficient stiffeners welded in place longitudinally and crosswise to assure maximum rigidity.

	Weight and dimensions	
	Door height overall	38"
78	Door width overall	281/4"
	Height of cab from driver's seat to roof	36"
	width across back of cab	57"
	wiath of cab across top of windshield	51"
1	Length of cab from top of windshield to rear door	64"
1	Approximate weight	55 Lbs.

Order "Jee-Cabs" and replacement parts from your Willys-Overland Motors Distributor.

ORDER ALL LITERATURE INCLUDING ILLUSTRATED INSTALLATION INSTRUCTIONS FROM

WORMAN Full "Jee-Cab"

LIGHTWEIGHT

The full cab weighs only 55 pounds. The Jeep's center of gravity is not changed by the addition of a Worman Jee-Cab.

RIGID CONSTRUCTION

Made of all aluminum. Free from rattles and vibrating points because of the unique method of construction and installation. The cab is spot welded throughout.

RUSTPROOF

All-aluminum construction except for a few cadmium plated (rustproof) steel parts.

INSTALLATION

Anyone can install the Worman Jee-Cab by following the photo-illustrated installation instructions. Two men can completely install the full cab in approximately three hours and a half. Removal takes about twenty minutes.

VISIBILITY

The Worman Jee-Cab has unbreakable Safety Glass windows in both doors and in the rear panel. Windows in the quarter panel are optional. The door windows slide so the driver can open the windows for traffic signalling. The rear panel of the full cab is hung on a piano type hinge to facilitate opening.

REMOVABLE SECTIONS

The doors of the Jee-Cab can be removed in a few seconds. The rear panel is removable or it lifts upward and is held in that position by rear panel supports. The Jeep can be driven with the rear panel open. Reinstallation of the doors and panel takes but a few minutes.

SAFETY FEATURES

Improved visibility with the Worman Jee-Cab. Sliding windows for traffic signalling.

VENTILATION

Windshield and the sliding windows may be opened for good ventilation. In winter months, the addition of a heater to the Jeep gives warmth comparable to a closed car. During the summer months, the aluminum reflects the sun's rays and keeps the cab really cool making the cab equally desirable in summer.

SHIPPING

The cabs are shipped in cardboard containers complete with installation instructions. Freight rate is low because of the cab's light weight. Shipping weight is 70 pounds.

COMFORTABLE

This cab makes the Jeep more comfortable and practical, both for farm and industry. Tops are durable. The customer will have protection from the elements. Top will not sag under weight of snow or water. The Jeep with Jee-Cab is MUCH, MUCH cooler in summer.

APPEARANCE

The Worman Jee-Cab has a pleasing appearance. The cab is supplied in natural aluminum finish. It can be painted to match the color of the Jeep. The cab is not bulky or "cheap" in appearance. When installed, it looks as though it is an integral part of the Jeep.

TELEPHONES: Long Distance 166 • MAin 2267 • GArfield 4608



WORMAN Half "Jee-Cab"

This top has been thoroughly tested and specifications have been carefully checked and approved by the Engineering Department of the Willys-Overland Motors, Inc.
The "Jee-Cab" is constructed with heavy gauge Aluminum with sufficient stiffeners welded in place longitudinally and crosswise to assure maximum rigidity.

Weight and dimensions	
Door height overall	.38"
Door width overall	281/2"
Height of cab from driver's seat to roof	36"
Width across back of cab	57"
Width of cab across top of windshield	51"
Length of cab from top of windshield to rear panel	.36"
Approximate weight installed	40 Lbs.

Order "Jee-Cabs" and replacement parts from your Willys-Overland Distributor.

ORDER ALL LITERATURE INCLUDING ILLUSTRATED INSTALLATION INSTRUCTIONS FROM

WORMAN Half "Jee-Cab"

LIGHTWEIGHT

The half cab weighs only 40 pounds. The Jeep's center of gravity is not changed by the addition of a Worman Jee-Cab.

RIGID CONSTRUCTION

Made of all aluminum. Free from rattles and vibrating points because of the unique method of construction and installation. The cab is spot welded throughout.

RUSTPROOF

All-aluminum construction is sure protection against rust.

INSTALLATION

Anyone can install the Worman Jee-Cab by following the photo-illustrated installation instructions. The original installation of the cab takes two men about one hour and forty minutes. Removal takes about twenty minutes. Instructions show proper procedure.

VISIBILITY

The Worman Jee-Cab has unbreakable Safety Glass windows in both doors and in the rear panel. The door windows slide so the driver can open the windows for traffic signalling.

REMOVABLE SECTIONS

The doors of the Jee-Cob can be removed in a few seconds. The rear panel is also removable. With these sections removed, the top does not lose any of its rigidity. Reinstallation takes but a few seconds.

SAFETY FEATURES

Improved visibility with the Worman Jee-Cab. Sliding windows for traffic signalling.

VENTILATION

Windshield and the sliding windows may be opened for good ventilation. In winter months, the addition of a heater to the Jeep gives warmth comparable to a closed car. During the summer months, the aluminum reflects the sun's rays and keeps the cab cool, if the cab is not painted a dark color.

SHIPPING

The cabs are shipped in cardboard containers complete with installation instructions. Freight rate is low because of the cab's light weight. Shipping Weight is 55 pounds.

COMFORTABLE

This cab makes the Jeep more comfortable and practical, both for farm and industry. Tops are durable. The customer will have protection from the elements. The Jeep with a Jee-Cab is MUCH, MUCH cooler in summer.

Top will not sag under weight of snow or water.

APPEARANCE

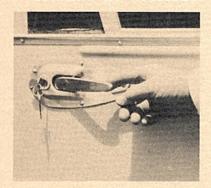
The Worman Jee-Cab has a pleasing appearance. The cab is supplied in natural aluminum finish. It can be painted to match the color of the Jeep. The cab is not bulky or "cheap" in appearance. When installed, it looks as though it is an integral part of the Jeep.

TELEPHONES: Long Distance 166 • MAin 2267 • GArfield 4608

ARCRAFT 3A JEÉP TOP VISION · SAFETY · VENTILATION



COOL IN SUMMER



Exclusive recess type door lock with keys.



No extra charge.



Adjustable side windows can

AUTOMOTIVE DIVISION

ACHINE & SUPPLY COMPA

200 SOUTH EAST 29th STREET OKLAHOMA CITY 9, OKLAHOMA . BOX 4547

BARBRAHI 3A HALF TOP





"Manufactured to rigid aircraft specifications using aircraft methods and aircraft aluminum. Workmanship and material fully guaranteed."

These exclusive features are standard equipment on CARCRAFT bodies. Manual "Roll Type" door glass.

Adjustable side panel glass (Full top).

Side panel and door glass fitted in felted channels.

Doors equipped with recess type locks.

Interior insulated and Flock treated throughout.

Painted Exterior—(wake ivory)

 Special "Mail Carrier Door" available at no extra cost.

Big rear window allows maximum vision and may be lowered for ventilation.

AUTOMOTIVE DIVISION

CARSON MACHINE & SUPPLY COMPANY

200 SOUTH EAST 29th STREET . OKLAHOMA CITY 9, OKLAHOMA . BOX 4547

Boston Top GIVES YOU ADDED PROFIT ON THE SALE!

Here is your answer to the question of how to convert the Jeep into a satisfactory all-weather car. The Boston Top—light, easily put on, easy to remove — gives the Jeep the storm-proof comfort of a closed car. The Boston Top is Willys factory approved. It provides you with exactly what you need to build many new Jeep sales, and to make additional sales to Jeep owners. It's the most profitable Jeep accessory you can handle.

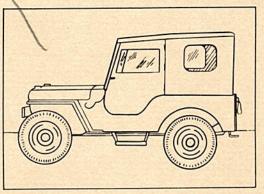
Adaptable to Many Needs

Not only does the Boston Top provide complete closed-in coverage, it may also be partially used in several ways, such as to give side and top protection leaving both ends open; protection all around without the bother of doors; rear protection with easy access by raising of panel; or, to sum it up, adaptability to meet a complete list of widely varying requirements.

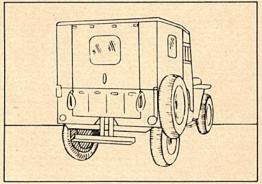
The small sketches on this page and the next, illustrate the ease with which the Boston Top is assembled or removed, and the many ways in which it may be mounted to serve specific needs.

(CONTINUED ON NEXT PAGE)

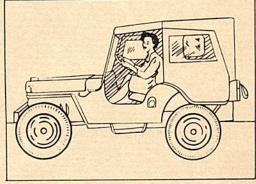
Willys New England Co., Boston, Mass.



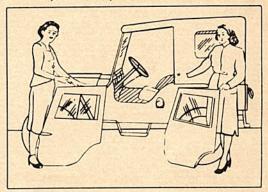
Complete weatherproof assembly of the 1 Boston Top on Jeep. Note the large windows, of safety plate glass.



Showing rear of completely enclosed 2 body. Large window in panel permits rear view.



3 Front, left-hand door swung open. Door may be entirely removed, if desired.



4 Both doors removed, for ease and quickness in getting in or out at either side.

The Boston Top-for Jeeps

(CONTINUED FROM PREVIOUS PAGE)

The Boston Top, especially designed for the Jeep, and factory approved, is made of aluminum, with all windows of safety plate glass. It is easy to handle, and adds but little weight to the Jeep.

Because of its unusual sectional construction, the Boston Top functions all year around, in the way individually preferred. It will provide complete protection from the weather, or as much ventilation or open area as may be wanted.

Can Be Completely Installed in One Half Hour

Anyone can install the Boston Top on a Jeep completely in a half hour. No fitting is necessary, the accurately designed sections falling into place without effort. To remove the top requires no tools, and may be done in two minutes. Sections may be removed in a few seconds, without tools.

The addition of a Boston Top converts the Jeep into an allweather, all-year-'round car, increasing its value, and making it adaptable to a thousand uses. Its simplicity and perfect construction appeal to every Jeep owner.

You Can Make the Boston Top Make Money for You

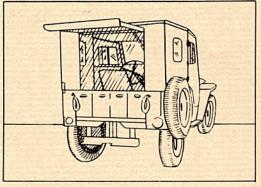
Jeep owners wherever, at times, it rains, snows, blows, or is cold, are potential customers for a Boston Top. They are quick to see its value and convenience. Its light weight and ease of installation appeal immediately. Properly featured, the Boston Top may be made a valuable addition, if not the leader, in your Jeep accessory line.

Show and demonstrate the Boston Top. It will positively give you additional business, both by itself and as a stimulant to more Jeep sales. It is unquestionably the most satisfactory Jeep top you can offer your customers. Get complete information today.

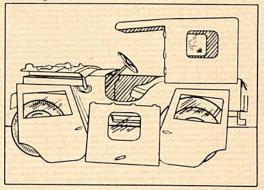
FOR PRICES, TERMS, AND DISCOUNTS WRITE

Willys New England Co.

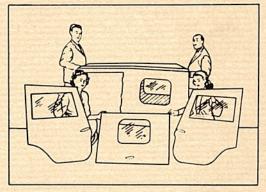
1045 Commonwealth Avenue, Boston, Mass.



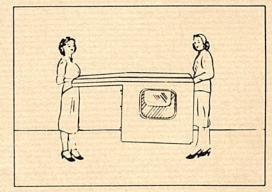
Rear door lifted. Jeep will ride with panel swung up, permitting overhanging load.



Front and rear doors removed, and windshield swung to top of hood. Allows carrying of timbers, boards, pipe, potes.



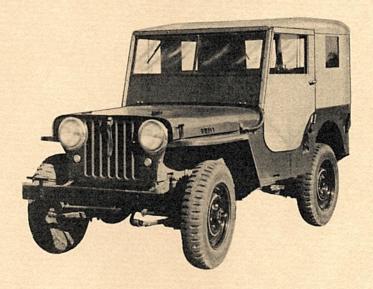
7 The four parts of the Boston Top, quickly assembled without special fitting.



8 Made of aluminum, the Boston Top is light in weight, and easily handled.

5/5/50 No 10, 2 m= 9 Eoz. 1

The Famous 'Car Craft' JEEP BODY



Safety Tested and Time Tested By Jeep Owners All Over America!

See Reverse Side For Details

Machine & Supply Company

200 SOUTH EAST 29TH ST.

OKLAHOMA CITY 9. OKLAHOMA

BOX 4547

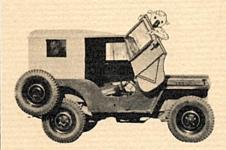
5/5/50Nox - 3 meg & 2!



CONSTRUCTION FEATURES

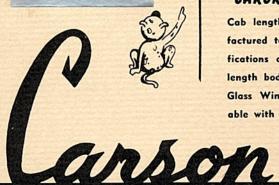
Jeep Body

FINGER-TIP
WINDOW
ADJUSTMENT



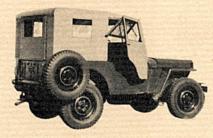
DU-PLATE SAFETY GLASS panels, especially ground and fitted, slide smoothly in felted twin channels set in a rigid, double-frame, individual front window unit.

ALUMINUM



STREAMLINED FOR BEAUTY
BUILT LIKE A BOMBER
RUGGED AS A JEEP





MAIL CARRIER DOOR

Popular with rural carriers everywhere. Full opening provided by special hinges on the standard CARCRAFT Du-Plate Safety Window Unit. Available at a small extra cost.



CARCRAFT HALF CAB

Cab length as illustrated. Manufactured to the same rigid specifications as the CARCRAFT full length body. Has Du-Plate Safety Glass Window Units. Also available with "Mail Carrier Door."

Safety Built



General Construction: Rigid bomber type, heavy angle reinforcements throughout.

GIVES EXTRA

Exclusive "Arch" top design prevents side sway, and reduces vibration.

COMPLETE
DRIVING VISION
NO BLIND SPOTS

with Carcraft's exclusive full size front door DU-PLATE SAFETY GLASS ADJUSTABLE WINDOWS

Machine & Supply Company

200 SOUTH EAST 29TH ST.

OKLAHOMA CITY 9, OKLAHOMA

BOX 4547



- Built entirely of 16 and 18 gauge sheet steel, thus assuring a maximum of safety and minimum vibration.
- Door windows roll up and down for full opening.
- Safety glass used throughout.
- Side windows slide for full opening.
- Ceiling lined with air-spaced panel board.
- Opened rear panel is on self-supporting hinges.
- Spot welded wherever possible, electric welded elsewhere.
- No rivets used at any points.

KOENIG IRON WORKS

2214 Washington Ave.

Houston 10, Texas



- Half and full cab doors work on heavy continuous hinges.
- All doors lined with Presdwood.
- All cabs protected with basic primer coat.
- Half cab back panel can be removed if desired.
- RUGGEDLY CONSTRUCTED AND AFFORDING THE MAXI-MUM IN COMFORT, KOENIG ALL-STEEL CABS ARE TRULY FOR THE DISCRIMINATING BUYER.

KOENIG IRON WORKS

2214 Washington Ave.

Houston 10, Texas



WORMAN Mail Carrier Full "Jee-CAB"

The Mail Carrier Jee-CAB is the same proven Jee-CAB quality, but it is especially designed for rural letter carriers. Front door finger-tip controls instantly lower the Safety Plate Glass Windows to a full 11¼" x 19" opening.

The Mail Carrier Jee-CAB is constructed of heavy gauge Aluminum with sufficient stiffeners welded in place longitudinally and crosswise to assure maximum rigidity.

Weight and dimensions:	
Door height overall	38"
Door width overall	
Height of cab from driver's seat to roof	36"
Width across back of cab	
Width of cab across top of windshield	
Length of cab from top of windshield to rear door	
Approximate weight	

Order Mail Carrier "Jee-CABS" and replacement parts from your Willys-Overland Motors Distributor
ORDER ALL LITERATURE INCLUDING ILLUSTRATED INSTALLATION INSTRUCTIONS FROM

WORMAN Mail Carrier Full "Jee-CAB"

LIGHTWEIGHT

The Mail Carrier Jee-CAB weighs only 65 pounds. It does not make the Jeep top heavy nor burden the Jeep with excess weight. The Jeep's center of gravity is not changed by the addition of a Worman Mail Carrier Full Jee-CAB.

RIGID CONSTRUCTION

Heavy gauge aluminum is used for Jee-CAB construction. The cab is free from rattles or vibrating points because of the unique method of construction and installation. The Worman Jee-CAB is spot welded throughout. The doors of the Mail Carrier cab have an inner panel which houses the SAFETY GLASS windows and the mechanism for raising and lowering the window.

WINDOWS

The front door windows of the mail carrier cab provide a full size opening without any obstruction. The windows are raised and lowered with ease in all kinds of weather. Felt channels guide and protect the safety glass plus making a tight seal. The window opening measures 11½" x 19". Rural mail carriers may drive up to a mail box, lower the window, open the mail box and slide in a package without leaving the Jeep. There is an inside and outside ledge which serves as an arm rest.

RUSTPROOF

The Jeep-CAB is all-aluminum construction except for a few cadmium plated (rustproof) steel parts.

INSTALLATION

Anyone can install the Worman Mail Carrier Jee-CAB by following the photo-illustrated installation instructions. Two men can completely install this cab in approximately three hours and a half. Removal when necessary takes about twenty minutes.

REMOVABLE SECTIONS

The doors of the Jee-CAB can be removed in a few seconds. The rear panel is removable or it lifts upward and is held in that position by rear panel supports. The Jeep can be driven with the rear panel open. Reinstallation of the doors and panel takes but a few minutes.

VENTILATION

The windshield and windows may be opened for good ventilation. In winter months, the addition of a heater to the Jeep gives warmth comparable to a closed car. During the summer months, the aluminum reflects the sun's rays and keeps the cab really cool making the cab equally desirable in summer.

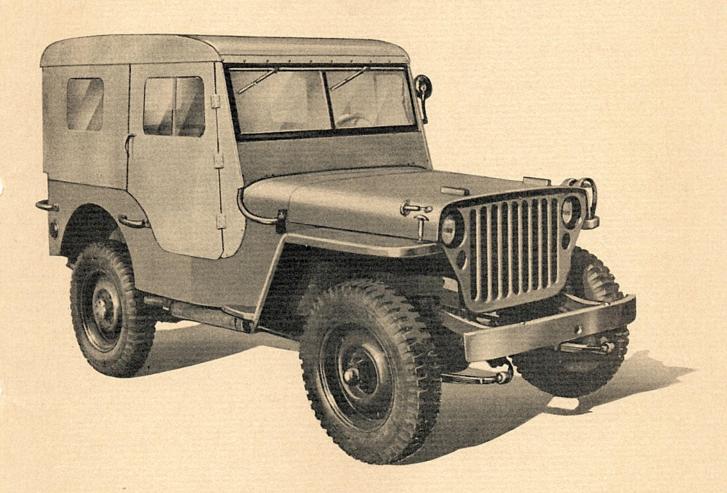
COMFORTABLE

The Jee-CAB makes the Jeep more comfortable and practical for all purposes. It is a boon to mail carriers. The cabs are durable, and offer excellent protection from the elements. The cab will not sag under weight of snow or water. The Jeep with Jee-CAB is MUCH, MUCH cooler in summer.

APPEARANCE

The Worman Jee-CAB has a pleasing appearance. The cab is supplied in natural aluminum finish. It can be painted to match the color of the Jeep. The cab is not bulky or "cheap" in appearance. When installed, it looks as though it is an integral part of the Jeep.

TELEPHONES: Long Distance 166 • MAin 2267 • GArfield 4608



WORMAN Military Full "Jee-CAB"

This cab will fit the Military Jeep without any alterations to the 'Jeep' or cab. The Military cab has proved highly satisfactory after being thoroughly tested under all road conditions and in all kinds of weather by the engineering staff of the Jee-CAB division, Laurel C. Worman, Inc.

This Military model is constructed of heavy gauge Aluminum with sufficient stiffeners welded in plate longitudinally and crosswise to assure maximum rigidity.

It is WORMAN Jee-CAB quality designed especially for the Military Jeep.

Weight and dimensions:	
Door height overall	
Door width overall	
Height of cab from driver's seat to roof	
Width across back of cab	
Width of cab across top of windshield	
Length of cab from top of windshield to rear c	door 64"
Approximate weight	55 lbs.
Approximate weight	

Order "Jee-CABS" and replacement parts from your Willys-Overland Distributor.

ORDER ALL LITERATURE INCLUDING ILLUSTRATED INSTALLATION INSTRUCTIONS FROM

WORMAN Military Full "Jee-CAB"

LIGHTWEIGHT

The Military full Jee-CAB weighs only 55 pounds. The Jeep's center of gravity is not changed by the addition of the Worman Jee-CAB.

RIGID CONSTRUCTION

All-aluminum body with stress points re-enforced. The cab is spot welded throughout. The Jee-CAB is free from rattles and vibrating points because of the unique method of construction and installation.

RUSTPROOF

All-aluminum construction except for a few cadmium plated (rustproof) steel parts.

INSTALLATION

Anyone can install the Worman Military Jee-CAB by following the photo-illustrated installation instructions. Two men can completely install the full cab in approximately three hours and a half. Removal when necessary takes about twenty minutes.

VISIBILITY

The Worman Jee-CAB has unbreakable Safety Glass windows in both doors and in the rear panel. Windows in the quarter panel are optional. The door windows slide so the driver can open the windows for traffic signalling. The rear panel of the Military full cab is hung on a piano type hinge to facilitate opening.

REMOVABLE SECTIONS

The doors of the Jee-CAB can be removed in a few seconds. The rear panel is removable or it lifts upward and is held in that position by rear panel supports. The Jeep can be driven with the rear panel open. Reinstallation of the doors and panel takes but a few minutes.

SAFETY FEATURES

Improved visibility with the Jee-CAB.

Sliding windows for traffic signalling purposes.

VENTILATION

Windshield and sliding windows may be opened for good ventilation. In winter months, the addition of a heater to the Jeep gives warmth comparable to a closed car. During the summer months, the aluminum reflects the sun's ray and keeps the cab really cool making the cab equally desirable in summer.

SHIPPING

The cabs are shipped in cardboard containers with installation instructions. Freight rate is low because of the cab's light weight. Shipping weight is 70 pounds.

COMFORTABLE

The Worman Military model Jee-CAB makes the Military Jeep more comfortable and practical the year-'round. Tops are durable. The Jeep's occupants will be protected from the elements. The cab will not sag under weight of snow and water. The Jeep with Jee-CAB is MUCH, MUCH cooler in summer.

APPEARANCE

The Worman Jee-CAB has a pleasing appearance. The cab is supplied in natural aluminum finish. It can be painted to match the Jeep's color. It is not bulky or "cheap" in appearance. When installed, it looks as though it is an integral part of the Jeep.

TELEPHONES: Long Distance 166 • MAin 2267 • GArfield 4608



WORMAN Military Half "Jee-CAB"

It will fit the Military Jeep without any alterations to the Jeep or cab. This cab has proved highly satisfactory after being thoroughly tested under all road conditions and in all kinds of weather by the engineering staff of the Jee-CAB division, Laurel C. Worman, Inc.

The Military model is constructed of heavy gauge Aluminum with sufficient stiffeners welded in place longitudinally and crosswise to assume maximum rigidity.

It is WORMAN Jee-CAB quality designed especially for the Military Jeep.

Weight and dimensions:	
Door height overall	36"
Door width overall	281/2"
Height of cab from driver's seat to roof	
Width across back of cab	
Width of cab across top of windshield	
Length of cab from top of windshield to rear panel	
Approximate weight installed	

Order "Jee-CABS" and replacement parts from your Willys-Overland Distributor ORDER ALL LITERATURE INCLUDING ILLUSTRATED INSTALLATION INSTRUCTIONS FROM

LAUREL C. WORMAN, Inc., 1621 Madison Ave., Toledo 1, Ohio

WORMAN Military Half "Jee-CAB"

LIGHTWEIGHT

The Military model Jee-CAB weighs only 40 pounds. Installation of the Jee-CAB does not change the Jeep's center of gravity.

RIGID CONSTRUCTION

Heavy gauge aluminum plus spot welding makes this cab rigid. It is free from rattles and vibrating points because of the unique method of construction and installation.

RUSTPROOF

All-aluminum construction is sure protection against rust.

INSTALLATION

Anyone can install the Worman Jee-Cab by following the photo-illustrated installation instructions. Original installation takes about one hour and forty minutes. Removal when necessary takes about twenty minutes.

REMOVABLE SECTIONS

The doors of the Jee-CAB can be removed in a few seconds. The rear panel is also removable. With these sections removed the Jee-CAB does not lose any of its rigidity. Reinstallation of the doors and rear panel takes but a few seconds.

SAFETY FEATURES

Improved visibility with the Worman Jee-CAB.
Sliding Safety Glass Windows for traffic signalling.

VENTILATION

Windshield and the sliding windows may be opened for good ventilation. In winter months, the addition of a heater to the Jeep gives warmth comparable to a closed car. During the summer months, the aluminum reflects the sun's rays and keeps the cab cool, if the cab is not painted a dark color.

SHIPPING

The cabs are shipped in cardboard containers complete with installation instructions. Freight rate is low because of the cab's light weight. Shipping weight is 55 pounds.

COMFORTABLE

This cab makes the Military Jeep more comfortable and practical. The cab is durable and offers excellent protection from the elements. It will not sag under weight of snow or water. The Military Jeep with a Jee-CAB is MUCH, MUCH cooler in summer.

APPEARANCE

The Worman Jee-CAB has a pleasing appearance. The cab is supplied in natural aluminum finish. It can be painted to match the Jeep's color. The cab is not bulky or "cheap" in appearance. When it is installed, it looks as though it is an integral part of the Military Jeep.

TELEPHONES: Long Distance 166 • MAin 2267 • GArfield 4608

LAUREL C. WORMAN, Inc., 1621 Madison Ave., Toledo 1, Ohio

W-O CANVAS TOP PROVIDES ALL-WEATHER PROTECTION AT LOW COST



TOP UP ...

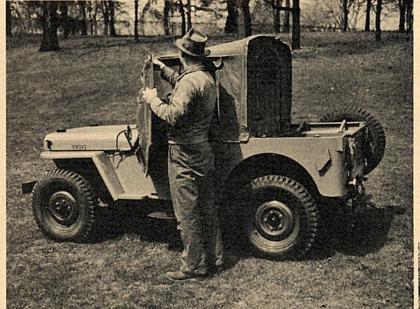
In a few minutes W-O Canvas Top can be completely assembled as shown here to provide weather-tight, water-proof cover for driver and passengers. Top has been found to be adequate for most climates. One of the features of this top is the ease of installation. Heavy-duty zippers and snap buttons assure tight fit to prevent drafts or water from entering cab. Good visibility for the occupants is assured by means of generous size cellulose acetate windows which have been placed at the average eye level. Either full top, as shown here, or half top can be obtained.

TOP DOWN...

Outstanding feature of this canvas top is ease in stowing on the Universal 'Jeep' with little effect on the load-carrying ability of the vehicle. Top bows fit into specially designed receptacle on left side of 'Jeep' body. Strap eliminates rattles or 'loss of bows. Top cross-pieces attach to lower section of windshield by clamps provided. Canvas sections are stowed over rear left and right hand fender wells. Thus the usuable load-carrying space is preserved and the weight is not appreciably increased.



OBTAIN THIS FACTORY-APPROVED EQUIPMENT FROM YOUR WILLYS-OVERLAND DISTRIBUTOR OR DEALER



HALF TOP PROVIDES A TIGHT PROTECTIVE COVER WHICH CAN BE MOUNTED RAPIDLY IN CASE OF INCLEMENT WEATHER.

FOR GENERAL USE, FULL TOP WITH DOORS AND SIDE CURTAINS REMOVED AFFORDS GREAT VISIBILITY AND COMFORT.



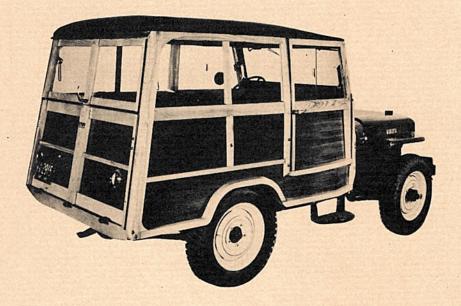
GENERAL FEATURES

Providing adequate protection from the weather for most climates, the W-O Canvas Top is made of 10 oz. soldenized duck, with all seams double-sewn for added wear. Duck has been treated to be mildewresistant. The top is light and when installed on 'Jeep' has practically no effect on the center of gravity of the 'Jeep' or on the load-carrying ability. Can be easily erected or removed in few minutes by one person. No special tools are needed. Heavy duck material retains warmth in cab in winter when Universal 'Jeep' heater is used. Heavy-duty zippers are checked for trouble-free operation and are rust resistant. Cellulose-acetate windows are non-inflammable and are set in metal frames to resist cracking. They can be easily replaced and are not affected by heat or cold.

OBTAIN THIS FACTORY-APPROVED EQUIPMENT FROM YOUR WILLYS-OVERLAND DISTRIBUTOR OR DEALER

Add Value, Utility, and Smartness to your 'Jeep'

GET A STURDEE STATION WAGON BODY
DESIGNED FOR BEAUTY - BUILT TO LAST



Features-

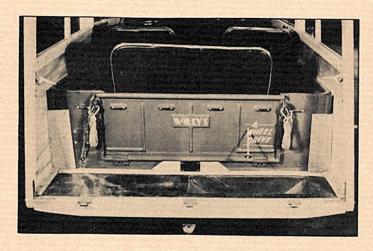
- Latest design station wagon body
- Best quality, seasoned hard wood
- Heavy duty hardware
- Metal T molding around all doors and tail gate
- 16 inch safety glass for maximum visibility
- Easy to install
- Big, roomy interior with extra headroom
- High gloss luster finish
- Dome light
- Sensational low price

For those dealers who want satisfied customers, the STURDEE 'Jeep' Station Wagon body is styled to meet the most discriminating taste, plus the durability of work by master craftsmen. The body's slick lines and smart appearance add greatly to the attractiveness of your customer's 'Jeep.' Dollar for Dollar the STURDEE Station Wagon Body cannot be beat!

STURDEE WOOD PRODUCTS CO., WILLOUGHBY, OHIO

THE STURDEE STATION WAGON BODY IS STURDY BUILT!

Shown here is additional luggage capacity including inside spare tire mounting. Note heavy duty braces designed to hold body rigid and thus eliminate squeaks and other body failures. Stoplight mounted on tail gate. Drawbar is not obstructed and is accessible for use.





Note clean lines of STURDEE Station Wagon Body. See additional luggage space formed by open tail gate and extended body. For greater comfort in warm weather or easy loading of packages, rear window can be left open.

SPECIFICATIONS

Overall length of body: 83 inches • Height of body: 52 inches • Widest point: 62½ inches • Weight 235 lbs. • Increases overall length of 'Jeep" 12½" • Baggage area 10½ cubic ft. with tailgate closed • 16" safety glass throughout • Extra large windows • Locking door • Handles (optional) • Automotive-type sliding windows • Mahogany veneer panels • Top-grade kiln drier hardwood frame • Pre-assembly weatherproof dipping of all parts • Heavy duty waterproof top covering for long life • Dome light • Heavy-duty hardware

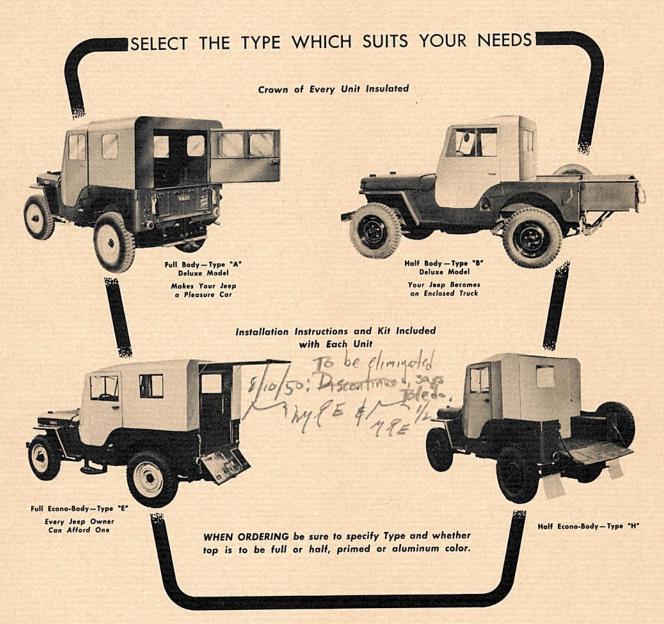
FOR ADDITIONAL INFORMATION, WRITE

STURDEE WOOD PRODUCTS CO., WILLOUGHBY, OHIO

Buy the Best

COMBINE COMFORT WITH PERFORMANCE

PORTER & REED TAILORED TOPS



For More Detailed Information Write

PORTER & REED MFG. CO.

PHONE 1614 or 1615 • 602-610 SOUTH H STREET • P. O. BOX 21 • WELLINGTON, KANSAS

ALL UNITS SHIPPED F. O. B. WELLINGTON, KANSAS

A Message From The Manufacturer . . .

SPECIFICATIONS

- ★ Body Constructed from heavy guage aluminum, reinforced with angular framing to assure maximum rigidity.
- ★ Insulated The crown of each body is sprayed with a smooth thick coating of rubberized insulation . . . reduces body rumble and waterproofs.
- ★ Doors Tight fitting, strongly constructed, and weatherstripped. Two 12" x 14" safety glass windows with METAL WINDOW PULLS. Double channels allow full opening of glass.
- Rear Door Opens wide giving plenty of loading space with more convenience.
- ★ Sun-Visors Two adjustable sun-visors at NO extra cost on type A and B only.
- Finish Available in bright aluminum finish or factory treated and primed ready for painting to match the Jeep.

Each body shipped "Individually Crated"

Complete With

Installation Instructions and Kit

"MOST CENTRALLY LOCATED JEEP BODY FACTORY"

EXCELLENT RAIL & TRUCK CONNECTIONS

THOUSANDS OF SATISFIED CUSTOMERS

The proof we can offer you of the desirability and quality of this body . . . Not by factory tests alone, but by actual use over miles and miles of the kind of roads the Jeep is built for.

The Porter & Reed Jeep Body is one that will stand all kinds of weather and is built to take the roughest of treatment.



RANCHERS, STOCKMEN, AND FARMERS ARE FINDING THE PORTER & REED ALL-METAL HALF BODY INVALUABLE IN THEIR TYPE OF WORK... THE HALF BODY ALLOWS FULL USAGE OF ALL JEEP ATTACHMENTS AS WELL AS THE EXTENSION BED AS SHOWN IN THE PICTURE... THE BACK PANEL CAN BE EASILY REMOVED TO ALLOW WORKING OF LEVERS AND ROPES. SIDE DOORS CAN BE TAKEN OFF IN A FEW MINUTES FOR COOLER DRIVING AND WORKING IN THE SUMMER TIME.

For More Detailed Information Write

PORTER & REED MFG. CO.

PHONE 1614 or 1615 · 602-610 SOUTH H STREET · P. O. BOX 21 · WELLINGTON, KANSAS

ALL UNITS SHIPPED F. O. B. WELLINGTON, KANSAS

POWERED FOR WAR • DRESSED FOR PEACE!





the V-7 DELUXE
STATION WAGON BODY

FITS ANY JEEP

Designed to meet the needs of the rugged Universal Jeep. The low slung broad lines gives this Top its unusual appealing appearance. The heavy all hardwood Body adds greater traction and riding comfort. Enjoy year round passenger car use with

full vision and Safety Glass protection.

All Doors are removable by merely pulling Pin in Hinges, thereby adding to its value as a Utility Vehicle. There is a V-7 Top for every job, whether for Truck use, Rural Mail Delivery, Farm or Business need.

IMPORTANT NOTICE

All Bodies shipped in K.D. Sections, completely finished and waterproofed. Cadmium plated carriage bolts used throughout.

COMPARE THE V-7 BODY FEATURES

★ Distinctive Design—Streamlined Beauty

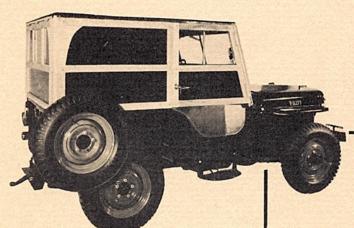
PAT. PENDING

- * Enjoy Full Vision—Locking Safety Glass Panels
- * Locking Doors-Genuine Automobile Hardware
- ★ Kiln Dried Hardwood Body—All Weather Protection
- ★ Floating Body Set on Sponge Rubber to Eliminate Noise and Vibration
- * Easily Installed—No Holes to Drill
- ★ Installation Time—Approx. 1 Hour

"THE BEST VALUE FOR THE MONEY"

For full information and cost write your distributor

MORE PROFITS WITH THE V-7 LINE!



there is a V-7
DELUXE BODY
for every need
on every Jeep

THE V-7 DELUXE PANEL COMMERCIAL TOP

V-7 Panel Truck Bodies are built to the same rigid specifications of all commercial requirements. It is designed for use as a Delivery Truck with added practical features.

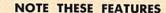
The V-7 Panel Deluxe Commercial Top is sturdy, strong and dependable with proven performance in many fields.

THE V-7 DELUXE PANEL COMMERCIAL TOP

Ideal for Salesmen in drug, candy, tobacco, notions, bakery, dairy and similar fields.

All units can be furnished with two (2) additional Trays to facilitate storage and handling of merchandise.

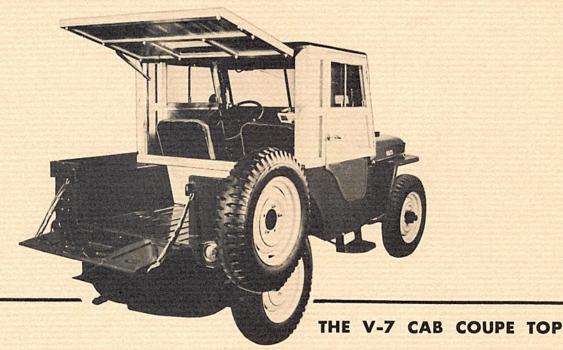
"THE BEST VALUE FOR THE MONEY"



- Easily Assembled—Approx. 1 Hour
- No Holes To Drill—Simply Clamps On
- Locking Glass Panels and Doors
- All Parts Completely Finished and Waterproofed for Year Round Weather Protection and Beauty
- Special Doors with Movable Upper and Lower Panels for Rural Mail Delivery Trucks
- Large Side Panels for Customers Advertising Material
- There Is a V-7 Body for Every Job and Jeep

For full information and cost write your distributor

MORE PROFITS WITH THE V-7 LINE!



V-7 Deluxe Cab-Coupe Tops are safe, strong and comfortable enclosures for the driver.

Manufactured under the same rigid specifications as the Deluxe Station Wagon Body.

Ideal for the farmer and his equipment. Rear door opens across entire width of cab and is removable. This allows full vision of equipment being operated. V-7 Cab-Coupe Tops are a must for gas station operators. Removable rear door allows easy access to hoists, lifts, and other equipments.

Fieldmen, Surveyors, Engineers, Contractors find the V-7 Cab-Coupe Top indispensable in the field and on the road, because the utmost in safety and utility is theirs at remarkably low cost.



THE V-7 CAB COUPE TOP

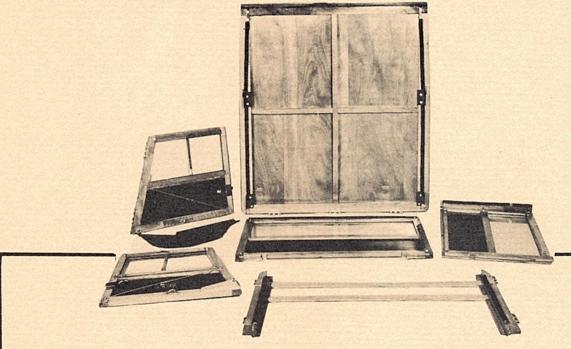
V-7 Cab-Coupe Tops are designed to meet the requirements of commercial and industrial users. Simple to install or remove from chassis.

Absolutely no holes to drill—simply clamps right on (a V-7 patented feature). Saves time—effort—and money.

"THE BEST VALUE FOR THE MONEY"

For full information and cost write your distributor

THE V-7 PROFIT LINE IS FOR YOU!



ABOVE PHOTOGRAPH SHOWS ALL BODY PARTS IN ASSEMBLED SECTIONS FINISHED, AS SHIPPED FROM THE FACTORY.

All V-7 Bodies are fabricated from kiln-dried lumber of the best grades obtainable. V-7 Bodies are finished with Marine Waterproofed Varnishes and Lacquers for lasting beauty and all year round weather protection. V-7 Bodies Roof Sections are covered with the finest grade automobile top decking. All hardware used is regular automobile grade, with locking handles for inside and outside protection.

* SIMPLE INSTRUCTIONS ARE FURNISHED WITH EACH BODY

V-7 Bodies are shipped in seven (7) sections as follows: 1 Front Windshield Section; 1 Roof Section; 2 Side Panels; 2 Front Doors; 1 Full Width Rear Door. Doors are fitted with metal sides formed to follow body lines. Entire body is packed in individual crate steel band strapped to facilitate handling and prevent damage in transit.

- * All V-7 Bodies are factory approved.
- ★ There are no holes to drill—Body simply clamps on—installed in approx. 1 hour.

UTILITY COMPARTMENT

Extra—Here is a fast-moving, handy practical time saver. Easily installed; no holes to drill. A must for every Jeep owner as a Utility Compartment. Extends full length of dashboard. Enhances interior beauty.

* "THE BEST VALUE FOR THE MONEY"

For full information and cost write your distributor

You

Are Better Served
With a Refrigerated Body
by -AMERIO



Specializing In
REFRIGERATED TRANSPORTATION

General Specification on reverse



REFRIGERATING EQUIPMENT CO., INC.

128-36 Forty-Fourth St.

Union City, New Jersey

"Serving The Better Buyers"

BUILDERS OF REFRIGERATED TRUCK BODIES EXCLUSIVELY



General Specifications "Jeep" REFRIGERATED BODIES

Bodies constructed of Aluminum—inside and out

6" Insulation; semi-rigid fibre glass

Doors optional as to number and location

Refrigerant optional-Dry Ice, Ammonia or Self-Contained.

Canopies optional (recommended for "vending" types)

Painting in any color or colors; also lettering

Capacity: Approximately 140 boxes 9" x 7" x 4" or equivalent

Outside dimensions: Approximately 57" wide—44" long—40" high

Lightest possible weight, consistent with durability

Our extensive experience in and facilities for building refrigerated bodies for the Ice Cream, Frozen Foods, Dairy and related industries, assures your getting the right body at the right price.

YOUR INQUIRIES ARE CORDIALLY INVITED

We will gladly furnish all information of interest

HERE IS THE TOP THAT TOPS THEM ALL!



Due to the demand in the field for the ultimate in quietness and maximum year around comfort in Jeep cabs, we have developed the Super-Deluxe Jee-Cab. This deluxe Jee-Cab is insulated throughout with 3/16" beaver board, painted on both sides so that moisture will not cause distortion or discoloration. Your customers will marvel at the cab's coolness in summer, its passenger car warmth in winter and will be amazed by its quietness in operation.

Large safety glass windows throughout insure maximum visibility, protection and ventilation. Front doors are equipped with windows which are raised and lowered by finger-tip control mechanism and feature automobile type locks with chromium plated automobile key locking handles.

This aluminum cab weighs 108½ pounds compared to the 55 pounds of the standard Jee-Cab. The Super-Deluxe Cab consists of 175 component parts and has 1845 spot welds.

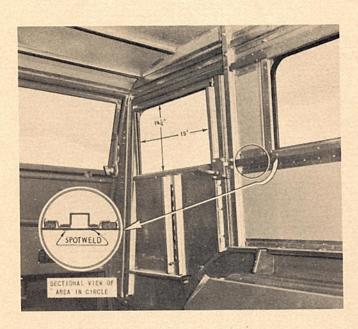
It is reinforced throughout with "V-Type" and "Hat-box" type stiffeners both vertical and longitudinal. This cab fits all models except the military Jeep.

TELEPHONES: LONG DISTANCE 166; MAIN 2267; GARFIELD 4608

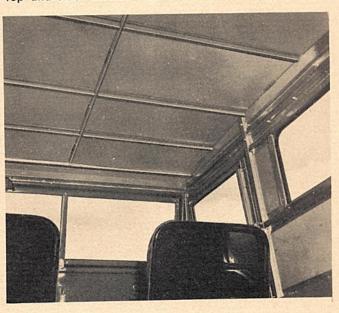
Jee-CAB

LAUREL C. WORMAN, INCORPORATED 1511 MADISON AVE., TOLEDO, OHIO, U. S. A.

FEATURES OF THE WORMAN SUPER DE LUXE Jee-CAB



STRENGTH The detail of the interior of the Super DeLuxe Cab shown in the above picture clearly indicates the sound engineering design that builds real strength and rigidity into this cab. INSULATION The Super Deluxe Jee-Cab is insulated against both heat and cold by painted, moisture-proof insulation that completely covers all inside panels. This coupled with the sturdy, reinforced cross members in top and sides assures the maximum in quiet operation.



SPECIFICATIONS

DETAILED DESCRIPTION OF PARTS COMPRISING THE SUPER DELUXE JEE-CAB

ROOF The roof is made up of 75 component parts of .032 aluminum, spot welded together. The forward edge of the roof where it fastens to the windshield has a wide hem, permitting the fastening bolts to go through both thicknesses of the metal. S locks are provided around the long edge of the roof to permit insulation of quarters. Seventeen pieces of 3/16 Beaver Board insulation, painted on both sides and fastened with metal retainers, are used in the roof. The roof requires 652 spot welds. The eaves are bolted to the roof with four 3/16 x 1/2 bolts, and 2 6.32 x 3/8

bolts are used to seal the Pittsburg lock at the front corners of the cab.

DOORS The doors are made up of 17 component parts of aluminum, requiring 260 spot welds. It is provided with a quick acting safety glass window having an opening of $14/1/4 \times 19''$. The window operates in felt channels and is provided with finger-tip operation. An automobile type lock with chromium plated key locking handles on the outside and a die-cast handle on the inside is used. The doors are fastened with four $2 \times 3 \frac{1}{2}$ hinges with removable pins for quick removal if desired.

QUARTERS The quarters are comprised of 23 pieces of component parts of aluminum with 224 spot welds. One window is provided in each quarter, having a 11 x 19 opening of safety glass which is removable but not opening. These windows are set in rubber to avoid breakage and provide a seal against the weather. Four pieces of insulation are used in each quarter and fastened with metal retainers. The door strikers are of heavy steel.

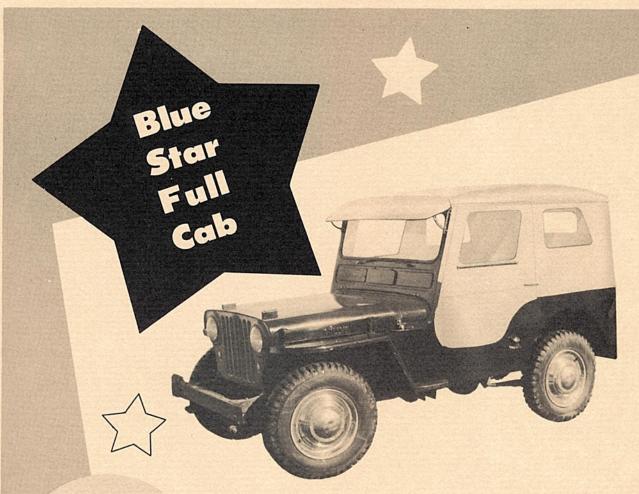
fastened to the windshield with three 3/10 x 1 1/4 bolls and to

the body with 3 1/4 x 1/2 bolts.

GENERAL The entire cab consists of 175 component parts, having a total of 1845 spot welds. All steel used in the cab, such as bolts and hinges are cadmium plated. The steel arms used to support the rear door when open are aluminum painted. All insulation in the cab is 3/16 Beaver Board, painted on both sides. The doors are made of .050 aluminum, including an inner reinforcement panel to insure maximum rigidity. The quarter, back panels and roof are made of .040 aluminum.



LAUREL C. WORMAN, INCORPORATED
1511 MADISON AVE., TOLEDO, OHIO, U. S. A.





One-piece tubular steel frame Year 'round driving comfort for every Jeep owner. Handsome, practical Blue Star Jeep Top gives pleasure car protection from wind, rain and dust. Summer heat or winter cold repelled by heavy insulation. The snug interior of the Blue Star Jeep Top overcomes bad weather handicaps without sacrificing one bit of the Jeep's famous ability to work.

Light, strong, easy to install, the Blue Star Full Cab is designed and built to rigid aircraft standards . . . made of durable aircraft materials and packed with all these outstanding features:

- Aluminum cover riveted to one piece tubular steel frame.
- Thick insulation glued to interior with waterproof cement.
- Sealed top seams.
- Doubly reinforced piano type door hinges.
- Door windows—15"x22"—vertical adjusting—ground to window opening 48".
- · Large plexiglass windows for all around visibility.

GOODMAN MOTOR COMPANY

630 EAST GRAND

DES MOINES 9, IOWA

National Distributor for the Blue Mfg Co.



LAMBERT All-Steel Full Top

Assures You Of Passenger Car Comfort In All Types Of Weather

Shipping Weight, Approximately 250 Lbs.



FULL CAB MODEL

BODY CAN BE INSTALLED ON ANY JEEP IN A FEW HOURS

Specifications

- 1. Complete body constructed of 20 gauge body steel.
- 2. All windows are of safety glass.
- 3. Windows in front doors slide up and down.
- 4. Windows in side panels slide forward.
- 5. Panel door in rear of body lifts up on brackets.
- 6. Window in rear panel door is stationary.
- 7. Complete body is spot and electric welded.
- 8. All doors are weather stripped with sponge rubber.
- Complete body prime coated with Oxide Red Metal Paint.
- Inside of cab is heavily coated with Under Body Seal and guaranteed noiseless.
- 11. Comes complete with bolts and metal screws for quick assembling.

CAN BE REMOVED OR REPLACED IN 15 MINUTES



REAR - VIEW

- Quick access to rear compartment through panel door.
- In case of accident, Lamberts ALL STEEL Jeep Top gives you greater protection than any other type of metals.

product of-

LAMBERT INDUSTRIES

VIRGINIA

Jeep Body Division

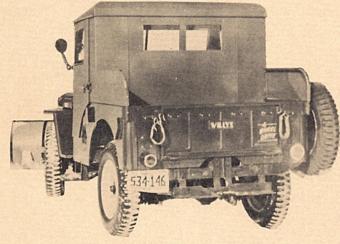
MINNESOTA

ADD COMFORT AND PROTECTION



Body can be installed in a few hours — and be removed or replaced in 15 minutes.

In case of accident, Lamberts ALL STEEL Jeep Top gives you greater protection than any other type of metals.



REAR - VIEW

Specifications

- Complete body constructed of 20 gauge body steel.
- 2. All windows are of safety glass.
- 3. Windows in front doors slide up and down.
- Rear panel of cab removable for better visibility in the field.
- 5. Complete body is spot and electric welded.
- All doors are weather stripped with sponge rubber.
- 7. Complete body prime coated with Oxide Red Metal Paint.
- Inside of cab is heavily coated with Under Body Seal and guaranteed noiseless.
- 9. Side Panels for rear compartment included.
- Comes complete with bolts and metal screws for quick assembling.

-product of-

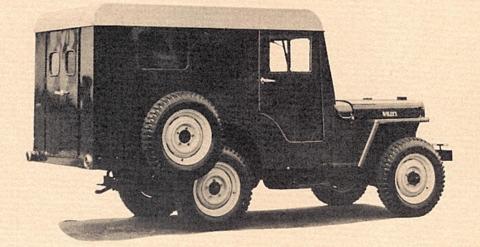
LAMBERT INDUSTRIES

VIRGINIA

Jeep Body Division

MINNESOTA

Hill's CUSTOM BUILT 'Jeep' Bodies!



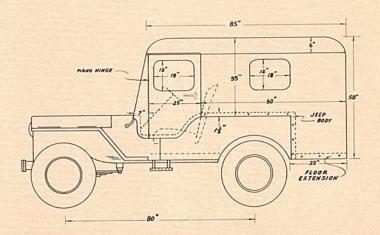
SPECIFICATIONS

- All steel construction, welded and bolted for strength. Interchangeable sections for economical repairs.
- Overall length of body 85"; length behind driver's seat 58"; height 52"; width 56"; load space, approximately 100 cubic feet.
- Rear door opening 33" wide, 40" high.
 Front door, 25" wide.
- Roll windows in doors, side panel windows 12" x 18" slide open, rear door glasses 8" x 10".

This light delivery and passenger combination is the talk of Jeep dealers everywhere. It's the smartest unit on the road, built to take it like the Jeep, with dozens of new features it sells on sight to those who want a roomy 100 cubic feet, light delivery unit which can be quickly converted to a seven passenger, station wagon type car. Wide rear doors, level floor. Immediate delivery.

GUARANTEE

We absolutely guarantee these bodies against any defect of workmanship or material. Repairs are quickly made by replacing sections which are interchangeable. When this body is installed your worries are over.



HILL CUSTOM BUILT BODIES
2321 CUSSETA ROAD . COLUMBUS, GEORGIA

Hill's Regular 'Jeep' Cab



This standard size combination passenger and light delivery Jeep body sacrifices none of the utility value of the unit and adds many practical features. Its streamlined, one piece top gives you the best looking Jeep

on the road.

Easily installed. Guaranteed same as our extension body.

Hill's 'Jeep' Short Cab

This popular unit gives an all weather pick up truck, quickly converted to a full open body by removing the back panel—which takes a couple of seconds. It's sturdy, light and economical.



America's Biggest Jeep Body Value

Same all steel, welded and bolted construction as the extension body.

Overall length 68"; length behind driver's seat 41"; height 52", width 56".

Rear door openings 33" wide, 40" high, front door 25" wide.

Door windows roll, side windows slide open.

I key to all locks.

Prime coat outside and inside so you can match unit.

SPECIFICATIONS

Same all steel, welded and bolted construction as extension body.

Body length 36", height 46" with removable back panel.

Door windows roll open.

1 key to all locks.

Prime coat outside and inside so you can match unit.

PICK UP BODY

COLUMBUS, GEORGIA



FOR SAFETY RUGGEDNESS

The MEYERS
Jeep Enclosure



TIME TESTED BY OWNERS ALL OVER THE WORLD



TECUMSEH.

MICHIGAN

FIRST IN THE FIELD *** -the Meyers enclosure

STRONG AS STEEL

Constructed of heavy gauge heat treated aircraft aluminum, ribbed with aluminum angles and extrusion stock. Genuine aircraft aluminum, not the type of aluminum sheet ordinarily used for roofing, siding, etc. The Meyers "Jeep" Top assures maximum rigidity, superior quality and is most economically priced.

FITS BOTH—MILITARY AND CIVILIAN JEEP

The interior of the Meyers "Jeep" top is sound proofed against metallic and road noises. Insulated with heavy coating of all-weather "resisting" enamel coated fire-proof material that even the most extreme weather conditions will not penetrate. Aircraft standards have been adhered to through entire construction.





(Full and Half Tops Available)

Front door window opening 10½" H x 19" W Rear door opening 38" H x 54" W Height of cab 48"

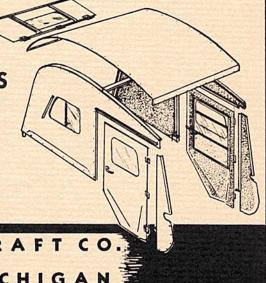
Width of cab 57"
Length of cab 66"
Approximate weight 56 pounds

Approximate shipping
weight 105 pounds
Individually packed in strong double

faced corrugated board container.

ANYONE CAN INSTALL A MEYERS

Detailed visual instructions accompany each top and are easy to understand.



MEYERS AIRCRAFT CO. TECUMSEH, MICHIGAN



HOWE-'JEEP' FIRE TRUCK

The "Jeep" Fire Truck is a low cost fire fighting machine that is compact, efficient, and maneuver-

able. It is especially adaptable to small towns, rural and forested areas, and industrial plants.

GENERAL SPECIFICATIONS

Centrifugal pump front mounted. Pumps 375 gallons per minute at 120 lbs. pressure. Two 10-foot sections four-inch smooth bore hard rubber suction hose. Two 25-foot lengths 2½ inch soft suction hose. Hose body to carry 500 feet 1½ inch hose. 20-foot extension and 12-foot roof ladder with

folding hooks. 10-foot pike pole, nozzles, fittings, axes, shovel, crow-bar, spanner wrenches, hose gaskets and siren with red flasher light. All fittings and couplings chrome plated. Equipment basket for carrying first aid kits, ropes, coats, hats and boots.

For Descriptive Literature, Write -

HOWE FIRE APPARATUS COMPANY

P. O. BOX 527



The "Jeep" Fire Truck is equipped to fight fires wherever there is a source of water nearby, whether it be a hydrant, cistern, well, pond, or creek.

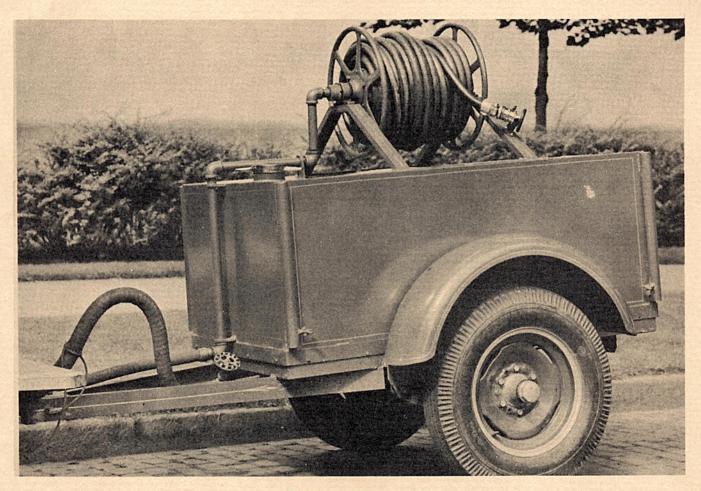


The "Jeep" Fire Truck with its selective 2 and 4 wheel drive makes practically any fire accessible to prompt and efficient fire-fighting.

For Descriptive Literature, Write -

HOWE FIRE APPARATUS COMPANY

P. O. BOX 527



HOWE-'JEEP' TANK TRAILER

The 200-gallon tank trailer, used in combination with the 'Jeep' pumper, furnishes a supply of water that is available the second the equipment arrives at the fire. The value of this tank is shown by statistics published by the National Board of Fire Under-

writers which state that, as an average, 90% of all fires that occur in the United States are extinguished by high pressure streams from a booster hose reel and booster tanks.

GENERAL SPECIFICATIONS

One 200 gallon 12 gauge steel, electric welded, rust treated booster water tank. Tank attached to pump so contents can be pumped through discharge hose. One "live" hose reel carrying 150 feet of high pressure hose. One triple combination straight stream, fog cone, and water curtain

nozzle. Four adjustable stabilizer legs at tank corners. One flexible suction connection connecting tank to Jeep pump. One flexible discharge connection connecting pump to tank hose reel.

For Descriptive Literature, Write -

HOWE FIRE APPARATUS COMPANY

P. O. BOX 527



The Howe Jeep Tank Trailer, used in conjunction with the Jeep pumper, supplies a high pressure stream of water that reaches several stories high. This stream of water may be placed into immediate

action and, when supplemented with a foam making nozzle, may be used effectively for fighting gasoline and oil fires.

For Descriptive Literature, Write —

HOWE FIRE APPARATUS COMPANY

P. O. BOX 527



KILL FIRE SAVE LIFE





PYRENE* 1 and 1½-Quart Vaporizing Liquid Pump Type

Smothers all classes of incipient fires particularly in flammable liquids and electrical equipment. Double-action hand pump discharges 25 to 30-foot stream. Heavy Vehicle type has "shock absorber" construction and clamp type bracket. Charge is non-freezing, non-deteriorating, and a non-conductor of electricity. Recharge only after use.





PYRENE 2-Quart Vaporizing Liquid Pressure Type

For fires in flammable liquids, electrical equipment, and incipient fires in ordinary combustibles. Discharges 30-foot stream by stored air pressure. Equipped with pressure gauge and liquid level port. Available with or without built-in hand pump and spray nozzle. Charge is non-freezing and a nonconductor of electricity.



PYRENE 1-Gallon Vaporizing Liquid Pressure Type

Heavy duty unit for fires in flammable liquids, electrical equipment, and all classes of incipient fires. Discharges 30 to 40-foot stream by stored air pressure. Hand pump and service air line valve provided for renewing pressure. Equipped with liquid level port and air pressure gauge. Spray nozzle is optional.



PYRENE SODA-ACID 4-STAR 2½-Gallon Soda-Acid Type

Effective on fires in ordinary combustibles such as wood, paper, textiles, etc. Either drawn seamless shell or riveted type. Operated by inverting. Discharges 30 to 40-foot stream of water. Unit must be recharged annually and protected against freezing temperature. Fire Dept. type has longer hose, non-slop stopple, and shut-off nozzle.



PYRENE FOAM 4-STAR 2½-Gallon Foam Type

Effective on fires in flammable liquids as well as in ordinary combustibles. Drawn seamless shell or riveted type. Operated by inverting. Unit discharges about 22 gallons of foam. Must be protected against freezing and recharged annually. Fire Department type has longer hose, non-slop stopple, and shut-off nozzle.

*T. M. Reg.

U. S. Pat. Off.



C-O-TWO CARBON DIOXIDE
Hand Portable Fire Extinguishers

Recommended especially for highly flammable liquids, paints, oil, solvents and alcohol fires, and for protection of electrical equipment.

Extinguishing Agent is carbon dioxide, a dry inert gas stored under pressure. Odorless, stainless, non-corrosive and a non-conductor of electricity. Won't freeze and is non-deteriorating.

"Squeez-Grip" Valve is opened as fast as you can close your hand. No loss of gas—no lost motion while maneuvering about fire.

C-O-TWO Portables are approved by Underwriters' Laboratories, Inc., and Factory Mutuals. Range of sizes—2½, 5, 10, 15 and 20 lbs.



'Affiliated with C-O-TWO Fire Equipment Company

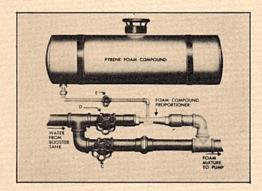


5 lb. Size

10 lb. Size



AIR FOAM



PYRENE FOAM SYSTEMS FOR MOTOR DRIVEN FIRE APPARATUS

Increase the fire-fighting capacity and efficiency of your "Jeep" booster truck with a Pyrene Air Foam System.

LARGE FOAM PRODUCTION — Every 100 gallons of water and 5 gallons of Pyrene Foam Compound produces about 1,750 gallons of foam at from 400 to 1200 gallons per minute depending upon the size Playpipe used.

SELF-CONTAINED — Not dependent upon suction or hydrants for operation.

EASY, SPEEDY TO OPERATE — With pump running, simply turn valves; foam compound and water automatically feed through the Playpipe at proper rate. No foam compound for operator to carry around.

FOAM OR WATER—To discharge foam, close valve C, open valves D and E; to discharge water only, close D and E, open valve C.

LOW COST—Simplified equipment is inexpensive, compact and easily installed.

*T. M. Reg. U. S. Pat. Off.

Pyrene Manufacturing Company

560 BELMONT AVE., NEWARK 8, NEW JERSEY S
BRANCH OFFICES

1179 Mission St. • 444 N. Lake Shore Drive • 242 Spring St. N.W. San Fran., Calif. Chicago, Ill. Atlanta, Ga.

Affiliated with C-O-TWO Fire Equipment Company







PP14B with Basket

Top: PP14H with Hip Pack

PP24

PYRENE FOAM PLAYPIPES

DESCRIPTION—Pyrene Foam Playpipes form a positive fire-smothering blanket over gasoline, oil and other flammables beyond the scope of hand extinguishers. Compact and ruggedly constructed, units are easily maneuverable about fire. Pyrene Foam floats on liquids, clings to solids and blankets horizontal and vertical surfaces.

OPERATION—Ready for use when connected to hose line of 50 lbs. or more pressure. By dropping pick-up tube into portable Hip Pack or Foam Compound container, correct proportions of water and compound automatically combine with air, forming a quick extinguishing foam solution. Discharges foam or water as desired. Easily handled by a single operator.

PLAYPIPES	PP14 or PP15	PP24 or PP25	PP34 or PP35	
Playpipe, length	261/4"	26"	261/8"	
Playpipe, diameter	1½" O.D.	11/8" O.D.	21/4" O.D.	
Playpipe, weight	83/4 lbs.	7½ lbs.	8¼ lbs.	
Playpipe, thread	Pyrene Foam Playpipes are furnished with customer's thread. Be sure to specify exact size and type of thread. Give the outside diameter over the male thread and number of threads per inch. Best plan is to submit sample coupling.			
Water Supply	Hydrant, tank or pump. Fresh or sea water.			
Water Pressure	50 pounds or more at playpipe.			
Water Consumption	17 to 21 g.p.m.	35 to 40 g.p.m.	50 to 60 g.p.m.	
Size of hose	3/4" to 21/2"	11/4" to 21/2"	21/2"	
Length of hose	Any length, providing pressure at playpipe does not drop below 50 pounds.			
Foam Production	300 to 400 g.p.m. 500 to 650 g.p.m. 900 to 1200 g.p.m.			
Expansion Ratio	One gallon of Compound makes about 350 gallons of Foam.			

	HIP PACK	BASKET
Diameter	. 7"	101/2"
Height	153/4"	101/4"
Weight Empty	71/2 lbs.	2 lbs.
Weight and 2 Ga	ls.	
Compound	241/2 lbs.	22 lbs.

FOAM VOLUMES are based on use of High Expansion Type Pyrene Foam Compound producing free-flowing, fast-extinguishing foam. For foam that is extra stiff and long-lasting but having only 50% of the volume from the same amount of water and Compound, use Low Expansion Type Pyrene Foam Compound.

Ready for ACTION— FIRE FIGHTER PLOW

Mounted on the Universal 'Jeep'



Shown above is an example of the effective work the 'Jeep' and Fire Fighter Plow do, even in thickly wooded sections. By means of the two 18" discs, a protective strip more than 5 feet wide is plowed to aid in the control of brush and forest fires.

PATENT PENDING

For Further Information, Write or Telephone 2181

LITTLE MOTOR CO., BAY MINETTE, ALA.

Designed to Work on 3 point Suspension Hydraulic Lift



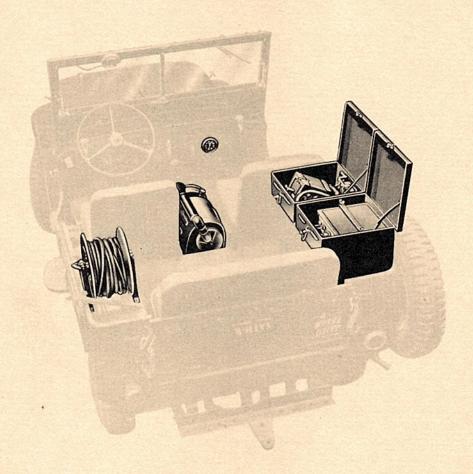
The photograph above shows how easy the Universal 'Jeep' is maneuvered and how quickly the hydraulic lift-controlled plow can be brought into action. The plow is designed to work on any 3-point suspension hydraulic lift. The weight of the plow is only 225 pounds. The two 18" steel discs mounted on the rear of the plow are designed for long life and fitted with Timken Roller Bearings. The Fire Fighter Plow can be quickly mounted and dismounted thus freeing the 'Jeep' for other jobs when fire patrol work is not needed.



Here the Fire Fighter Plow is shown in transit position with most of the weight off the lift and supported by the 'Jeep.'

For Further Information, Write or Telephone 2181

LITTLE MOTOR CO., BAY MINETTE, ALA.



MOBILE AUXILIARY POWER UNIT

The O. E. Szekely and Associates Mobile Auxiliary Power Unit combines in one package the most efficient, simple, and economical source of auxiliary power yet designed. The Unit, consisting of a standard Willys-Overland Jeep plus the addition of specially designed and standard components installed by the manufacturer forms a source of both mechanical and electrical energy that can be utilized for a great variety of purposes.

The "B" type Unit, designed for aircraft servicing, is equipped with a DC generator to supply 281/2 volt dc current for airplane engine starting and for aviation electronic servicing. (See sketch on reverse

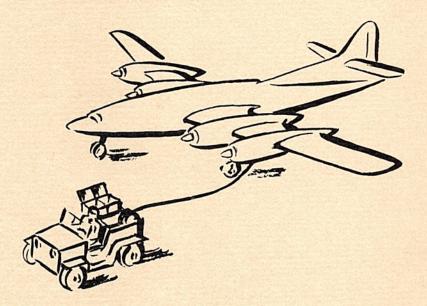
side.) A specially designed generator drive mechanism, attached to the transfer case drive of the Jeep, furnishes the mechanical power to operate the generator. A governor, attached to the jeep engine, and a tachometer, mounted on the dashboard, are included to maintain engine speed at a predetermined RPM. An instrument box containing a voltage regulator, a reverse current relay, an ammeter, a voltmeter, and the operating switches, is installed on the right side of the Jeep to control the operation of the system. Current, in one position, can be drawn from the generator via the instrument box through the cable wound around the cable reel on the left

This equipment may be ordered from:

O. E. SZEKELY and Associates

5312 Westminster Ave.

Philadelphia 31, Penn.
 Additional literature upon request.

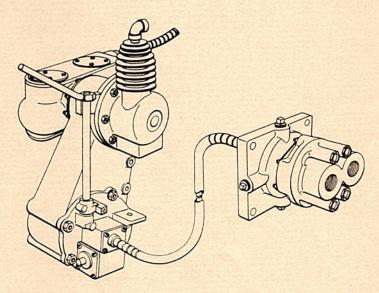


side of the Jeep. In another position a parallel source of dc power and surge current can be drawn from the battery with the generator in operation.

The "C" type Unit is equipped with both an AC generator and a DC generator for those who require both types of current. The AC generator is of the self-exciting type and provides electrical power directly through its receptacles. Except for the addition of an AC generator, this Unit is identical with the "B" type described above. Thus, this model, in addition to serving as a source of low voltage dc current for aircraft servicing, can supply ac current

for lighting purposes, the operation of electrical drills and similar tools and many other uses.

By removing the generator (in either type) the generator drive mechanism can be used as a source of mechanical power for the operation of compressors, high pressure pumps, etc. (See sketch below.) Similarly, by means of a flexible drive shaft, mechanical power can be drawn from the base of the drive mechanism for the remote operation of a hydraulic pump or similar equipment. This versatility makes the Unit adaptable to many applications with a minimum change-over time and cost.



This equipment may be ordered from:

O. E. SZEKELY and Associates

5312 Westminster Ave.

Philadelphia 31, Penn.
 Additional literature upon request.



GENERAL ELECTRIC TYPE AB-254

3.75 K.V.A.

and TRUCK

SPECIFICATIONS

General: The General Electric Type AB-254 synchronous alternating current generator is of special construction providing extra protection from physical damage, electrical break-down and operating wear and tear. It was particularly designed for rugged out-door use and continuous operation far from service facilities.

Rating: 3.75 K.V.A. 3 phase, 4 wire, 120/208 volts, 60 cycle, 1800 R.P.M., unity power factor, 50° C. continuous temperature rise, self-regulating and self-exciting.

Voltage Regulation: Automatic regulation and over-load protection make constant voltage power available, up to the generator capacity, without operational precautions.

Control Panel: A compactly designed control panel is installed on top of the generator. It contains the circuit breaker, over-load protection device and three ammeters, one in each phase, permitting constant observance of load.

Power Distribution: Power is simultaneously available thru 3 single phase 120 volt outlets and 1 three phase 208 volt outlet built into the control panel. These outlets are provided with special locking type socket and plug combinations.

Bearings: High precision, extra width, cartridge type, annular ball bearings sealed and shielded for protection and long life.

Speed Control: The Jeep engine is equipped with a special centrifugal governor, pre-set when generator is installed, which assures uniform engine speed despite fluctuating generator loads. It is easily disengaged when speed control is not required.

Cooling: The forced-air ventilating system keeps the generator at a low, uniform operating temperature even during heavy-duty service. Internal temperatures are maintained well within safe limits at rated capacity loads and heavy over-loading, for short intervals, produces no harmful

Generator Drive: Power from the Jeep engine, through the front power take-off, is transmitted to the generator by a set of 3 matched "V" belts running on specially de-signed sheaves having a ratio of 1 to 1.111. The drive is completely encased for protection of operator and mechanism. Belt adjustment is positive.

DESIGNERS AND BUILDERS OF MOTOR VEHICLE EQUIPMENT ESPECIALLY FOR WILLYS-OVERLAND JEEPS AND TRUCKS



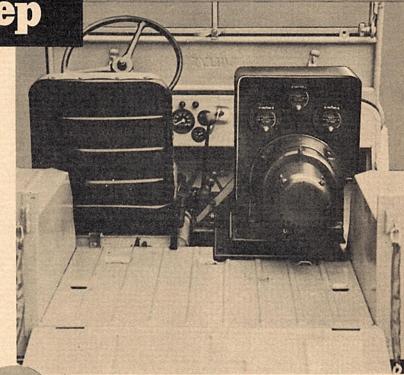
GENERAL ELECTRIC TYPE AB-254

GENERAL DESCRIPTION

The extreme mobility of the "Jeep" with its ability to negotiate any terrain and the flexibility of this General Electric self-regulating, completely protected type generator makes this unit one of the world's most highly portable sources of electric power.

This unique self-propelled, self-powered mechanism becomes a particularly useful tool for supplying 60 cycle power anywhere for the operation of standard 110 volt, single phase or 220 volt, three phase electric tools, apparatus and appliances. Its most useful function is the ability to furnish a constant, closely regulated supply of electric energy where power is not otherwise accessible.

Power is simultaneously available from 3 single phase 120 volt outlets and 1 three phase 208 volt outlet. Thus, within the capacity of the generator, one major tool, several portable tools and a complete emergency lighting system could be operated at the same time.



DDLEKAU

These General Electric synchronous generators were designed specially for installation in the Universal Jeep. They are built into the vehicle and actually become a component part thereof. The generator is bolted to a heavy adjustable base assembly which in turn is rigidly attached to the chassis frame by means of suitable reinforcing crossmembers and brackets. No load bears upon the body.

Continuous, precisely regulated performance and safety result from meticulous design and construction. The carefully balanced mounting of all parts promotes smooth, vibrationless operation. There are no exposed functional parts or electrical connections, Generator and drive are both enclosed in weather-resistant and drip-proof housings.

Minute consideration of every component part of this mobile power plant results in a unit capable of constant, trouble-free operation regardless of climatic conditions or terrain, in locations accessible only to the Jeep and generally remote from service facilities.

This self-contained, portable A.C. generating unit needs no skilled operator. It is built for rugged outdoor service particularly as a source of power for lighting and all types of portable construction tools. Contrators, public utilities, railroads, water, gas and pipeline installers will find numerous uses for this mobile power plant.

FAR. DSWORTH

MIDDLEKAUFF

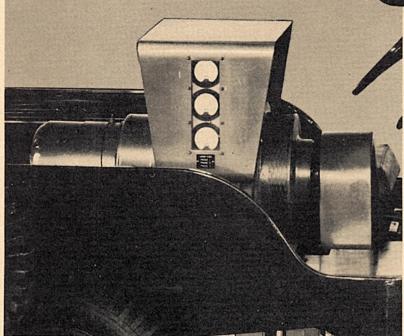
IN CORPORATED

1535 KETCHAM AVENUE - TOLEDO 8, OHIO

FOR COMPLETE DETAILS AND INFORMATION WRITE FARNSWORTH AND MIDDLEKAUFF INC.

FARDSWORTH MIDDLEKAUFF

12.5 K.V.A. ALTERNATING CURRENT MOBILE GENERATOR UNIT for the universal Teep and TRUCK



GENERAL ELECTRIC TYPE AB-326

S P E C I F I C A T I O N S

General: The General Electric Type AB-326 synchronous alternating generator is of special construction providing extra protection from physical damage, electrical break-down and operating wear and tear. It was particularly designed for rugged out-door use and continuous operation far from service facilities.

Rating: 12.5 K.V.A. 3 phase, 4 wire, 120/208 volts, 60 cycle, 1800 R.P.M., unity power factor, 50° C. continuous temperature rise, self-regulating and self-exciting.

Voltage Regulation: Automatic regulation and over-load protection make constant voltage power available, up to the generator capacity, without operational precautions.

Control Panel: A compactly designed control panel is installed on top of the generator. It contains the circuit breaker, over-load protection device and three ammeters, one in each phase, permitting constant observance of load.

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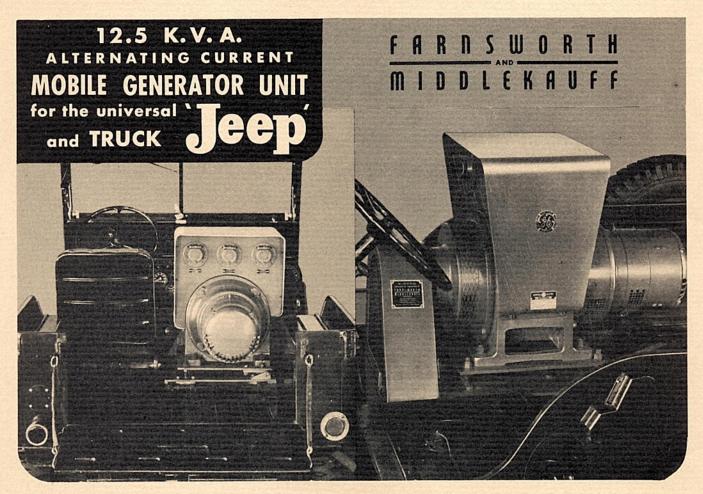
Bearings: High precision, extra width, cartridge type, annular ball bearings sealed and shielded for protection and long life.

Speed Control: The Jeep is equipped with a special centrifugal governor, pre-set when generator is installed, which assures uniform engine speed despite fluctuating generator loads. It is easily disengaged when speed control is not required.

Cooling: The forced-air ventilating system keeps the generator at a low, uniform operating temperature even during heavy-duty service. Internal temperatures are maintained well within safe limits at rated capacity loads and heavy over-loading, for short intervals, produces no harmful results.

Generator Drive: Power from the Jeep engine, through the front power take-off, is transmitted to the generator by a set of 6 matched "V" belts running on specially designed sheaves having a ratio of 1 to 1.22. The drive is completely encased for protection of operator and mechanism. Belt adjustment is positive.

DESIGNERS AND BUILDERS OF MOTOR VEHICLE EQUIPMENT ESPECIALLY FOR WILLYS-OVERLAND JEEPS AND TRUCKS



GENERAL ELECTRIC TYPE AB - 326 GENERAL DESCRIPTION

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Minute consideration of every component part of this mobile power plant results in a unit capable of constant, trouble-free operation regardless of climatic conditions or terrain, in locations accessible only to the Jeep and generally remote from service facilities.

This self-contained, portable A.C. generating unit needs no skilled operator. It is built for rugged outdoor service particularly as a source of power for lighting and all types of portable construction tools. Contractors, public utilities, railroads, water, gas and pipeline installers will find numerous uses for this mobile power plant.

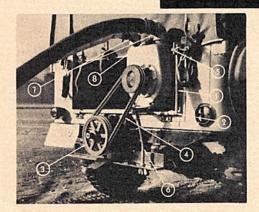


FOR COMPLETE DETAILS AND INFORMATION WRITE FARNSWORTH AND MIDDLEKAUFF INC.



Muiversal Jeep

PACKAGED PUMP



QUICKLY... EASILY ATTACHED WITH ORDINARY TOOLS ...

(1) Remove tail gate.

Place the pump and assembly frame in the same body brackets from which the tail gate was removed.

Place the driving pulley on the Jeep power take-off spline. Place the belts over the drive pulley and pump pulley.

(5) Place the pump assembly in closed tail gate position and fasten the tail

Attach the support rod to the draw bar.

Connect the suction and discharge hoses.

(8) Fill priming tank (1 gallon).

NOTE: A strainer is always recommended at the foot of the intake line.

The Model 12M-WJ, self-priming pumping accessory with adaptors for quick and easy mounting, is now available for use with the Universal Jeep.

Engineered especially for the job, it quickly converts the Jeep into a highly useful and extremely flexible portable pump. Its wide range of capacities and pressures at various engine speeds assures the greatest possible variety of uses.

Compact and simple adaptation parts are provided with each unit so that installation can be made without special tools.

Particular emphasis has been placed on the selection of the proper type and design of pump. The self-priming centrifugal pump has greater adaptability and life because of its inherent design characteristics. The principle pumping parts are not in direct contact and thus will pass small solids without harmful effect.

The drive to the pump is sturdy, compact and adaptable to long and rugged use with a minimum amount of care.

The MP design utilizes the most positive and effective means to accomplish self-priming. This design permits the circulated priming water in the pump to quickly dispel the air in the suction line. The priming water is circulated only during the priming cycle. During this period, the priming water contained in the pump passes into the discharge throat where the air is separated from the priming water. The air passes out of the pump but the priming water remains. This cycle is repeated until all the air has been removed from the suction line so that the pump is primed. It then functions in the same manner as a conventional centrifugal pump.

SPECIFICATIONS 12M-WJ PUMP



Model-12M-WJ Discharge-2 inches Intake-2 inches Overall Height-13% inches Overall Width— 101/2 inches Overall Length-103/8 inches Net Weight Complete Pump As-sembly—49 lbs. Material—Corrosion Resistant Aluminum

Capacity-See Chart Type Drive-Double Groove V-Pulley "B" Section Pulley—5 inches O.D. Drive Pulley— 91/2 inches O.D. Driving Belts-Pitch Length 54.1 inches Belt Adjustment
—Slots in pump base.

Universal Jeep PACKAGED PUMP



NOTE THE HIGH CAPACITIES OF THE MP PUMP

Capacities Chart Shows Callons per Minute

Total Head Including	Gallons Per Minute SUCTION LIFT OF 2'				Gallons Per Minute SUCTION LIFT OF 5'				Gallons Per Minute SUCTION LIFT OF 10'				Gallons Per Minute SUCTION LIFT OF 15'				Gallons Per Minute SUCTION LIFT OF 20'					
Friction Feet	1500 RPM	2000 RPM	2500 RPM	3000 RPM	3300 RPM		2000 RPM	2500 RPM	3000 RPM	3300 RPM	1800 RPM	2000 RPM	2500 RPM	3000 RPM	3300 RPM		2500 RPM	3000 RPM		2500 RPM	3000 RPM	3300 RPM
20	45	145	187	203		119		2037	2000	0104	114	No.	18388			200	S. Car		AL M	No.	KI M	Nr.m.
25	STATE	140	184	199	No.	72	135	Od Fal	MASON.	9===	68	117	122.00	Zid:	and the	2465	29990	UE SOL	200	1000		
30	200	85	180	194	188	333	80		ALL SEA	KVEN		87			D. CATA	90	200	20000	1000			14/31
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40	12	P. Tall	154	182	183	No.		151	176	Lake	alter	Herri	144	165	Saut	2550	130	138	100/15	110	111	
45			133	178	182		920	130	174	178	4122	建于多数	120	163		TIE!	115	138	19/mil	104	111	
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60		ed min	MARKET.	154	176		(SAS)	ALC: N	152	173	10.40	1000	Market .	148	161	MY 9-2	PHER	129	137	15 a	108	111
70	200	377.5		109	165	ALC: N	Share	17/18/	109	164	Pone	Sec.		109	153	Mar.		105	134		92	109
80	5,637	To be at	2000	000	142	091	100	English		141	5763	THE REAL	14 SEL	A CONTRACTOR	131	10 X	2020	50.64	115	3000		100

Note: To convert feet head (water) to pounds pressure, multiply head in feet by .433 pounds per foot. Example: 80' x .433 = 34.6 pounds.

A FEW OF THE MANY USES FOR PACKAGED PUMP EQUIPPED JEEP

Irrigation from lakes and streams.

Fire protection from a well or other water source.

Flushing and cleaning stables and other enclosures.

Spraying lawns, gardens and orchards. Pumping off flooded fields to prevent crop

damage. Relief of temporarily flooded ditches. Use the discharge to clear stopped drains, culverts, etc.

Use as a bilge pump to clean cisterns and other water storage tanks otherwise requiring hand pumping.

Filling spray tanks and other portable tanks in minimum amount of time.

Pumping out ditches, flooded basements, underground passages, tunnels, etc.

Irrigation from portable tanks.

Washing vegetables on truck farms.

Watering stock in the fields.

Pumping to gravity water tanks.

Source of pressure water for washing buildings, vehicles, etc.

General portable use by factories for pumping manholes and sumps, etc.

Pumping out boats and barges, etc.

PUMPING NEEDS ARE VARIED, BUT ALMOST UNIVERSAL. HERE IS YOUR SIMPLIFIED, LOW-COST ANSWER:

FOR . . .

- Farms Municipalities Contractors Ship Yards
- Ranches
 - Public Utilities Plumbers
- Estates
 - Factories

- Builders
- Docks
- Gardeners

For further information and literature for your customers, write us or call your distributor.

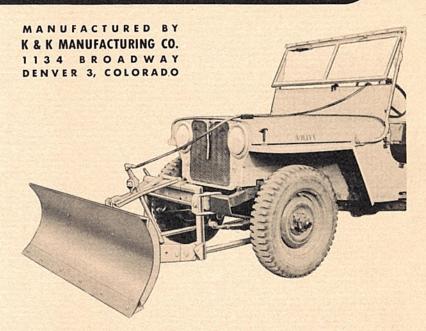
For earliest delivery, place your order immediately.



PRODUCTS AVENUE DETROIT 14, MICHIGAN

The MINUTE SNOW BLADE for "JEEPS"

Here is a Snow Plow that is especially valuable to "Jeep" owners. Snow can be removed speedily and without effort, while riding comfortably in the enclosed cab of your "Jeep." The MINUTE SNOW BLADE incorporates many new features that removes snow easier, quicker, and more economically. An ideal implement for use on farms . . . ranches . . . in the city . . . on all types of roads and highways . . . around stockyards . . . industrial plants . . . filling stations . . . air fields, parkways, parking lots and many others.



Lowest Priced . . . Fastest to Install . . . Sturdiest Snow Plow on the Market, Manufactured for "Jeeps"

RUGGEDLY BUILT

The design of the MINUTE SNOW BLADE is a lighter version of the bulldozer blade. Total weight is only 300 lbs. The cutting blade is of tough carbon steel, and the supporting frame is of light, strong tubular construction to resist hard treatment.

HYDRAULICALLY OPERATED

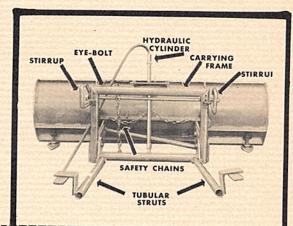
Raising the blade is accomplished hydraulically by fast operating hand pump. If "Jeep" is already equipped with power pack, the hydraulic attachment of the MINUTE SNOW BLADE can be adapted to power pack operation.

QUICKLY INSTALLED

The MINUTE SNOW BLADE takes 2 minutes to install and 1 minute to remove. Only 3 bolts are used. This includes attaching and removing the entire blade and frame. No other blade on the market can be installed and removed as quickly. The MINUTE SNOW BLADE is fool-proof and simple, and the only tool needed is a wrench.

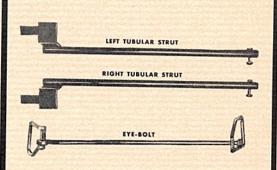
Speed Of Installation Is Special Feature

The MINUTE SNOW BLADE is easily installed by attaching carrying frame to bumper with eye-bolt. Tubular struts are then wedged between front spring hanger and "Jeep" frame, and are bolted to bottom of supporting frame of blade. The complete frame and blade is removed when not in use—nothing remains on the "Jeep." Installing complete snow plow takes 2 minutes, and removal takes 1 minute.



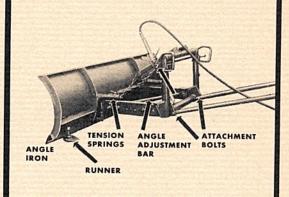
Safety Features Prevent Damage to "Jeep"

Strut tubes and blade are designed to withstand maximum load, assuring you safe performance. Safety chains are adjustable to prevent blade from falling to ground while traveling in up position. Tension springs prevent damage to blade if unseen obstruction is accidentally hit. Photograph also shows eye-bolt and stirrups that hold supporting frame of blade to "Jeep."



Blade Can Be Set For Angle Plowing

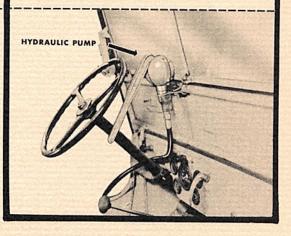
By changing bolts at rear of blade, it can be angled up to 30° either right or left. The two runners furnished with blade are hard chilled iron for long life, and can be easily detached by removing two cotter pins. Note also angle iron on bottom of blade to reinforce strength of cutting blade.



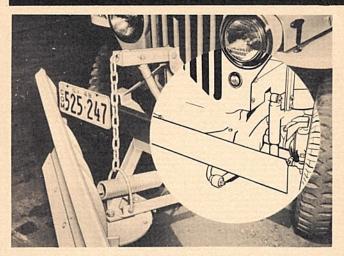
Hand Pump Is Convenient for "Jeep" Driver

By simply attaching hand pump to "Jeep" dash board, driver can raise or lower blade easily. When handle is in down position all hydraulic pressure is released. Hydraulic tube can extend through windshield or out the side of the "Jeep."

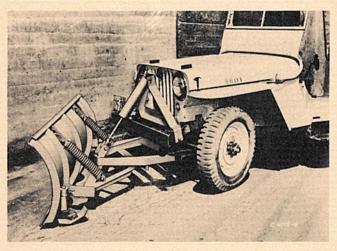
MANUFACTURED BY K & K MANUFACTURING CO. 1134 BROADWAY DENVER 3, COLORADO



MORRISON SNOW PLOWS—MANUAL AND HYDRAULIC







THE SNO-MITE: MANUAL AND HYDRAULIC OPERATION

Here's the biggest Jeep snow plow value you can find anywhere. Incorporates most of the construction features found on the Sno-Dozer. Will stand up under any "push" the Jeep can give it in ordinary use. Just the equipment for gas stations, garages and estates. Very simple to install. Illustration shows the hydraulically operated model controlled conveniently from the driver's seat. The SNO-MITE is available in models with manual control, hand hydraulic operated pump or completely equipped with Morrison Hydraulic "Power Pac" for effortless operation by merely flipping a lever on the dash. Any one of these Sno-Mite models represents the greatest snow plow value available today. Compare! Remember, Morrison-Built means Better Built.

MORRISON STANDARD SNO-DOZER

This is the most popular model in the Morrison line of Jeep snow plows. Its rugged construction and several exclusive features assure trouble-free operation for heavy duty plowing. Double safety trip springs allow blade to trip and ride over obstructions that might damage either plow or Jeep. Sturdy steel push rod members are completely under the Jeep and extend back to the drawbar, assuring proper distribution of strain or stress, and at the same time, allowing full road clearance for the Jeep. A reversible wear plate used on the cutting edge of the blade offers longer life. Blades are available in either 5' or 6' widths, and swing 28° to right or left of center, clearing the ground by 16" when in lift position.

MORRISON SPECIAL SNO-DOZER

Whether you will need a double-acting Ram Plow or not depends largely on the use to which you will put it. If for example you will use your Sno-Dozer for light backfilling or moving heavily packed snow, then the double-acting model is preferable. With the double-acting ram, you can hold the blade to the work and assure a cleaner, more even job. Like the other hydraulically-operated models, the controls are conveniently placed within easy reach of the driver — a flip of the hand raises or lowers the blade.

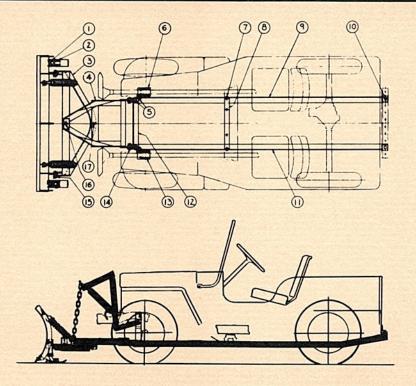
MANUFACTURING DIVISION

MORRISON RAILWAY SUPPLY CORPORATION

RAND BUILDING, BUFFALO 3, N. Y.

This is the Morrison-Built Rogers Snow plan

WHY MORRISON BUILT means BETTER BUILT



Check These Standard and Special SNO-DOZER Features

HEAVIER CONSTRUCTION . . . Engineered to "take it". Built to stand up on the tough jobs. Heavier construction than competitive makes with weight properly distributed to assure efficient, trouble-free operation.

PUSH RODS . . . Features in this design are sturdy "push rods" that are completely under the Jeep and out of the way. These extend to the drawbar where the load is taken up. Eliminates frame or chassis strain avoiding any possible damage to your Jeep.

MANEUVERABILITY . . . The Sno-Dozer is compact and does not hamper the flexibility of the "Jeep". It is engineered for maximum strength and durability.

ALL HYDRAULIC . . . Full, fast acting hydraulic operation can be furnished with either simple, inexpensive hand-operated pump or power operated package. Any hydraulic unit can be used. All controls are from the seat.

QUICKLY MOUNTED . . . No holes to ream or bore! Anyone can quickly and easily install.

BLADE . . . Sno-Dozer unit comes with 5 or 6 foot blade (with reversible cutting edge) curved just right for plowing and scraping. Blade swings 28 degrees to right or left of center, and lifts to clear ground by 16 inches. "Jeep" with plow mounted can easily clear curbs.

SAFETY TRIP SPRINGS . . . Note big, sturdy, shock-absorbing springs. They allow blade to trip and ride over obstructions that would normally damage either Sno-Dozer or Jeep. Heavy adjustable riding shoes prevent "digging in" when plowing snow.

LOW PRICE . . . The Sno-Dozer is an economical investment. It is soundly engineered with absolutely no sacrifice in quality.

MORRISON RAILWAY SUPPLY CORP.

RAND BUILDING . BUFFALO 3, N. Y.

NEWGREN SNOW PLOW with HYDRAULIC EQUIPMENT



Now Available 3 WAYS -With MONROE HYDRAULIC EQUIPMENT

No. RSP-1

Snow Plow with 6 ft. blade (5 ft. optional) and Hydraulic Package

No. RSP-2

Snow Plow with 6 ft. blade (5 ft. optional) and Hydraulic Package

No. RSP-3

Snow Plow with 6 ft. blade (5 ft. optional) and Hydraulic Package No. 3

HYDRAULIC PACKAGE No. 1 — Monroe Hydraulic Pump, Monroe 3-way valve, Monroe 2-way 2½ x 12 in. ram, and two 12-ft. hoses with connections.

HYDRAULIC PACKAGE No. 2 — Monroe 2-way 2½ by 12 in. ram and two 12-ft. hoses with connections. (For Jeeps already equipped with Monroe or other hydraulic pump and valve.)

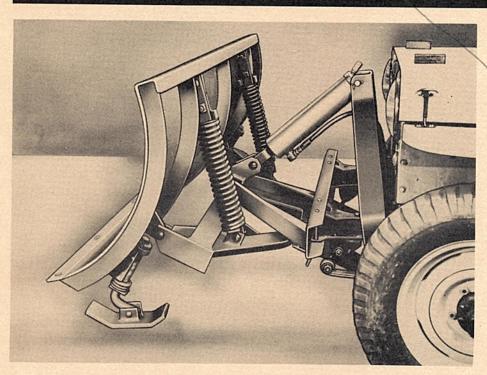
HYDRAULIC PACKAGE No. 3—Hydraulic double-acting hand pump, single-acting 1½ x 10 in. ram, and one 8 ft. hose with connections.

With Monroe Hydraulic Equipment (Models RSP-1 and RSP-2), the Rogers plow is the only snow removal equipment that gives hydraulic down pressure that is adjustable up to 500 lbs.

DISTRIBUTED BY

THE NEWGREN COMPANY BUTLER, PA.

MORRISON-BUILT AND JEEP-PROVED -NOW A PART OF THE NEWGREN LINE



SEE THE RUGGED CONSTRUCTION

Here's the business end of a Rogers Sno-Plow equipped "Jeep." Heavier and better engineered construction throughout means greater dependability, longer service life, lower operating cost.

THE MORRISON-BUILT ROGERS SNOW PLOW-

HEAVIER CONSTRUCTION... Engineered to "take it." Built to stand up on the tough jobs. Heavier construction than competitive makes with weight properly distributed to assure efficient, trouble-free operation.

PUSH RODS... Features in this design are sturdy "push rods" that are completely under the Jeep and out of the way. These extend to the drawbar where the load is taken up. Eliminates frame or chassis strain, avoiding any possible damage to your Jeep.

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QUICKLY MOUNTED . . . No holes to ream or bore! Anyone can quickly and easily install.

BLADE ... Sno-Plow unit comes with heavy 5 or 6 foot blade of 24 inch depth (with reversible cutting edge) curved just right for plowing and scraping. Blade swings 28 degrees to right or left of center, and lifts to clear ground by 16 inches. "Jeep" with plow mounted can easily clear 8-inch curb.

SAFETY TRIP SPRINGS . . . Note big, sturdy, shock-absorbing springs. They allow blade to trip and ride over obstructions that would normally damage either Sno-Plow or Jeep. Heavy adjustable riding shoes prevent "digging in" when plowing snow.

LOW PRICE . . . The Sno-Plow is an economical investment. It is soundly engineered with absolutely no sacrifice in quality.

THE NEWGREN COMPANY

Engineers and Distributors of Farm-Tested Implements
BUTLER, PENNSYLVANIA



MODEL J-47

JEEP SNOW PLOW

LIGHT • RUGGED • EFFICIENT

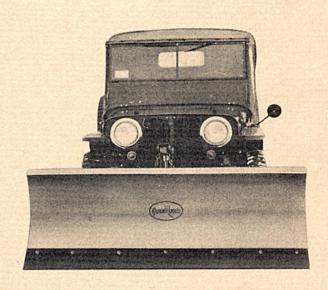
The Good Roads Champion Model J-47 Jeep Snow Plow is designed and constructed especially for use on the Universal Jeep. With it, you can quickly convert your versatile little Jeep into a highlyefficient snow removal unit.

It is ideal for clearing sidewalks, paths, driveways, parking lots, wharves, loading docks, etc. The six-foot steel moldboard can be quickly adjusted and locked in position to plow straight ahead or to deflect the snow to the right or left without turning the vehicle.

The moldboard can be detached by the removal of three clevis pins and stored in a small space. It can be attached again in three minutes.

With an inexpensive attachment, the J-47 Champion Snow Plow can be quickly adapted for moving lightly packed earth, ashes, fertilizer, rubbish, etc.





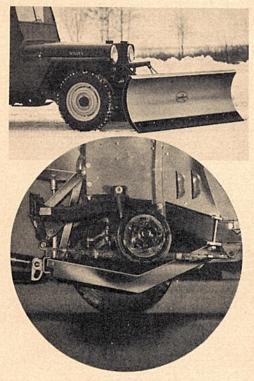
Designed and Built for Speed, Safety, Economy, Ease of Operation and Long Service . . . See Next Page



JEEP SNOW PLOW



Blade Adjusted to Deflect Snow to Left
Blade Adjusted to Deflect Snow to Right



GOOD ROADS MACHINERY CORPORATION MINERVA, OHIO, U. S. A.

FOR SPEED, SAFETY, ECONOMY AND EASE OF OPERATION

The plow incorporates the important design and construction features which have made the Champion line the choice of highway departments and municipalities all over the nation.

FAST, THOROUGH SNOW REMOVAL The plow is mounted to provide utmost strength and flexibility, and conforms readily to road conditions. Easy adjustment of plowing angles insures fast, thorough snow removal.

HORSEPOWER ECONOMY Slope, curvature and plowing angle of the Champion blade are designed to penetrate the snow and to lift and roll it aside with minimum vehicle effort. These features, combined with light weight, permit efficient operation with low horsepower requirements.

EASY TO OPERATE Good Roads' time-tested clear-vision hydraulic lift, power or hand operated from the driver's seat, raises or lowers the plow and holds it securely at any height. This allows the operator an unobstructed view and permits high-speed operation with complete safety.

LOW OPERATING AND MAINTENANCE COST Speed, efficiency, ease of operation and horsepower economy result in lowest possible operating cost. Tested design and rugged construction insure extra-long and dependable service with minimum maintenance.

DESIGNED AND BUILT FOR LONG, DEPENDABLE SERVICE

The Champion Snow Plow is constructed throughout of high-grade steel castings and rolled steel, electrically-welded and riveted into a rugged, all-steel unit. Every part is designed to insure dependable performance under the most severe operating conditions.

LONG-WEARING SKI-TYPE SHOES The plow has two free-swiveling, ski-type shoes, adjustable to compensate for cutting-edge wear.

LONG-SERVICE CUTTING EDGE The cutting edge is made of special-analysis, high-carbon steel, selected for long wear, and is securely bolted to the moldboard. Cutting edges which become worn after long service are easily removed and replacements are readily available.

SAFETY BLADE-TRIP REDUCES SHOCKS TO PLOW AND JEEP The Champion safety blade-trip releases the moldboard instantly and automatically whenever the cutting edge encounters an obstruction. Shocks to the plow and Jeep are greatly reduced.

NEW JEEP PLOW ATTACHMENT

Simple, Rugged, Easily Installed

The plow can be installed in approximately one-half hour without drilling holes in the frame or welding. No special tools are required and it is not necessary to remove any parts from the Jeep in order to make the installation.

The plow attachment is engineered especially for use with the Willys Jeep. It is simple in design and light in weight yet ruggedly constructed of electrically-welded steel to give maximum strength and rigidity. Push bars are attached to the Jeep frame at its strongest point, minimizing strain on the vehicle.

SPECIFICATIONS

Moldboard: 6 feet long, 24 inches high.
Cutting Edge: 3/8 inch x 6 inches, high-carbon steel.
Ski-type Shoes: Free-swiveling, cast steel.
Adjustable Semi-Circle: Right, left, straight ahead.
Lift Device: Hand hydraulic or power hydraulic, as specified.

Meyer Snow Plows UNIVERSAL For WILLYS Jeep

QUICK REVERSIBLE BLADE
AND V-TYPE MODELS
BACKED BY MORE THAN 20 YRS.
EXPERIENCE IN THE
LIGHT SNOW PLOW FIELD.

Matching the Universal Jeep in rugged dependability, Meyer Snow Plows offer efficient snow removal service at minimum cost plus extra service as a year round tool for backfilling, etc. Sturdy all-steel welded construction insures years of service. Jeep mounting, designed for simplicity and ease of attachment, provides maximum road clearance. Lift is mounted back of the bumper, well out of the way when not in use.

Meyer Snow Plows are easily installed, quickly attached with only two hinge pins. Quick-Reversible Blade Models are instantly set for right or left delivery or to push straight ahead with mold-board curvature designed for fast rolling delivery. Adjustable self-steering swivel runners are standard equipment; rigid braces are furnished with Spring Trip Models, and all plows are priced complete—no extras.

The Only Jeep Snow Plow with a War Record



QUICK REVERSIBLE BLADE MODELS

Model	ST-72	SB-72	SB-78
Length of Blade	72 in.	72 in.	78 in.
Height of Blade	24 in.	23 in.	23 in.
Width of Path Cleared	60 in.	60 in.	65 in.
Shipping Weight	453 lbs.	356 lbs.	361 lbs.

V-TYPE MODELS

Models	VJ-60	VJ-69
Height at nose	23 in.	24 in.
Height at rear	32 in.	34 in.
Width of Path Cleared	60 in.	72 in.
Shipping Weight	500 lbs.	553 lbs.

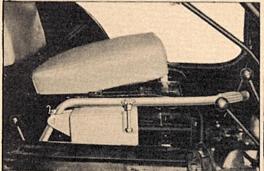
WRITE FOR DEALER

MEYER PRODUCTS

3599 EAST 82nd STREET CLEVELAND 5, OHIO

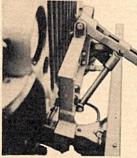


CHOICE OF LIFT ATTACHMENTS



Meyer Snow Plows are available with fast-acting Hand Hydraulic Lift—conventional hand pump and hydraulic ram, with hand pump located between the seats, out of the way.

HAND OPERATED HYDRAULIC

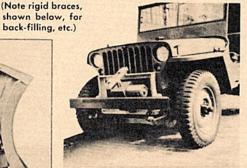


FLETRULIFT AN EXCLUSIVE MEYER SNOW PLOW FEATURE



An electrically operated Hydraulic Lift—exclusive Meyer feature—raises or lowers plow in a few seconds. Push button controls on dash give instant action up or down.





POWER HYDRAULIC

Power Hydraulic Lifts available; or Ram and Hydraulic connections for attaching to Jeep Power Lift.

SPRING TRIP TYPE

Quick reversible Spring Trip plow has conventional trip blade with heavy adjustable tension springs, carried on adjustable swivel runners for smooth operation—a good sturdy plow for all general work.

YEAR 'ROUND SERVICE

Blade-type Meyer Snow Plows offer extra service in Year 'Round Use for back-filling, leveling, light bulldozing. Special squeegee Rubber Safety Blade is available for clearing slush, rubbish, for quieter operation around hospitals, schools, etc.





Meyer Snow Plows

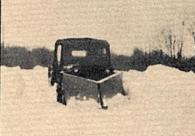
for the UNIVERSAL

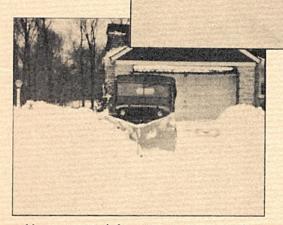
Jeep



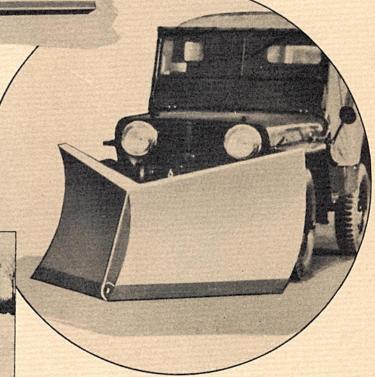
A lighter less expensive plow with patented Meyer Safety Blade, designed especially for private use. Can be furnished as a Scraper-Type plow to ride directly on the pavement or with adjustable swivel runners.

Meyer Snow Plows on the Universal "Jeep" have opened County Roads when regular equipment failed.





Very practical for private users with difficult snow removal problems.



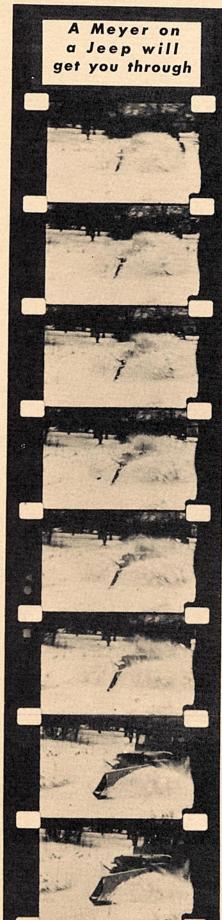
V-TYPE MODELS

The V Plow divides and rolls the snow to both sides, is better for deep and drifted snows and on hilly roads. Plow rides on adjustable swivel runner. V-Plow is interchangeable with blade plows on same Jeep mounting. Users report the Meyer Vee does the impossible.

BEST BY TEST SELL A MEYER

MEYER PRODUCTS

3599 EAST 82nd STREET CLEVELAND 5, OHIO

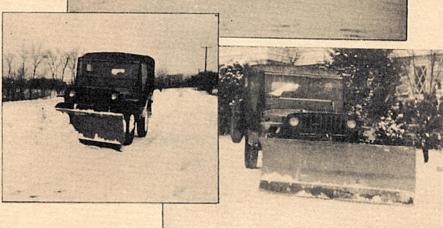




HITTING IT HARD IN A TOUGH SPOT

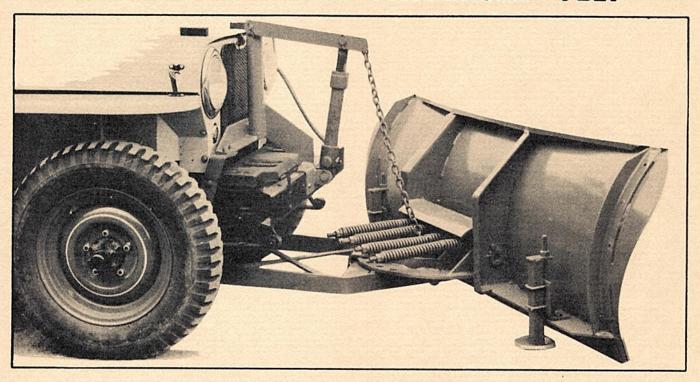
Roads blocked with snow are cleared by a Jeep and a Meyer after other equipment fails.





BLACKHAWK (V) and Straight Blade SNOW PLOWS

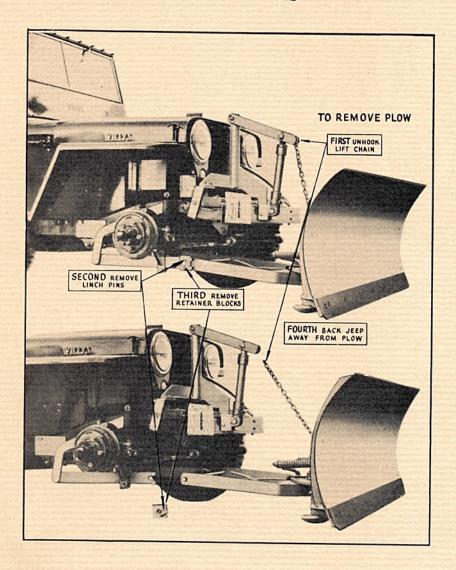
FOR USE WITH THE UNIVERSAL 'JEEP'



The Universal 'Jeep' equipped with a BLACKHAWK SNOW PLOW will handle snowplowing jobs that normally would require heavier and more expensive equipment. The blade can be swung to the right or left. Lifting is accomplished by means of a hand operated hydraulic pump mounted inside of cab or by the power driven pump if the 'Jeep' is so equipped. A highly efficient spring trip allows the blade to trip and pass over any solid obstruction which may be encountered. Side plates and skid shoes are also offered as optional equipment.

MANUFACTURED BY

Arps Corporation, New Holstein, Wis., U.S.A.



BLACKHAWK Snow Plows are easy to operate and adjust. Blade can be put on or removed in less than one minute after initial installation. Power is applied from a point back of the front wheels on the frame. There is no danger of bending the front horn of the frame. Blade and plow frame are heavily reinforced.

A 5 ft. 'V' type plow is also available. It will fit on the same frame as the 5 ft. two-way straight blade snow plow. The 5 ft. 'V' plow is heavily reinforced. The long, tapered moldboard makes this plow push easily. All cutting edges are removable.

SPECIFICATIONS

5' Two-Way Straight Blade Snow Plow	5' 'V-Type' Snow Plow
Cutting Width (set at angle) 60 in. Length of Blade 72 in. Height of Blade 27 in. Height of Lift 9½ in. Cutting Edge (Removable) 3/8 x4x72 in. Shipping Weight (Blade and Frame) 521 lbs. Shipping Weight of Skid Shoes (pr.) 24 lbs. Shipping Weight of Side Plates (pr.) 71 lbs.	Cutting Width 60 in. Height (front) 27 in. Height (rear) 39 in. Height of Lift 9½ in. Cutting Edge (removable) 3/8 x4 in. Shipping Weight (including frame) 640 lbs

DISTRIBUTED BY EQUIPMENT VENDORS CO., BOX 601, TOLEDO, OHIO MANUFACTURED BY

Arps Corporation, New Holstein, Wis., U.S.A.



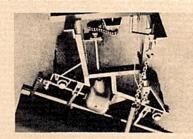
Here's the ideal outfit that is ready to work around the clock—around the calendar—on Railroad Platforms — Sidewalks — Streets — Airport Runways — Bridges — Skating Rinks — Factories — and any other place where surfaces are kept clear and clean.

The Newgren Rotary Broom is driven from the front of the crankshaft of the 'Jeep'. This feature is extremely valuable when sweeping drifted snow or other material of variable depth. The brush speed is kept constant, regardless of the rate of travel. The

brush is raised by hydraulic power controlled by the operator. Heavy Duty clutch, controlled from the cab of 'Jeep', disengaging brush for high speed transporting.

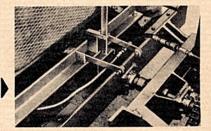
The broom frame is full floating from the mounting bracket on the 'Jeep', and rides on its own two caster wheels. No rigid connection that will raise or lower the broom when going over the crest of a hill or when the 'Jeep' wheels drop into a chuck hole.

QUALITY BUILT FOR LONG DEPENDABLE SERVICE



HIGH QUALITY ROLLER CHAIN DRIVES THE BROOM. GEAR ARE ENCLOSED AND OPERATE SUBMERGED IN OIL.

CLOSE UP VIEW SHOWING THE CLUTCH MECHANISM, HEAVY DUTY SELF-ALIGNING BEARINGS AND HYDRAULIC CONNECTION.



THE NEWGREN COMPANY

Equipment Tailored For The Jeep

730 Phillips Avenue

Toledo 12, Ohio

SPECIFICATIONS

Approximate Sweeper weight	.900 lbs.
Approximate Brush weight	.175 lbs.
Overall height, brush lowered	36"
Overall height, brush raised	451/2"
Overall length (including Jeep)	18'-1"

Hydraulic System

PUMP—Hand type with self-contained reservoir.

RAM—Single acting, 1½" dia., 4" stroke. Equipped with long-life "O" ring seal.

TUBING—High grade 5/16" copper or steel.

COUPLING—Instantaneous action completely seals both cut-off lines.

Hand operated—no tools required.

DRIVE—All Roller Chain—3/4 pitch with alloy steel pins and bushing, case hardened.

SPROCKETS-Machine cut hardened steel.

Power Take-Off

CLUTCH—Dodge Rolling Grip.

BEARINGS—Oversize precision ball bearings, lubricated and sealed for life.

When broom is disconnected may be used as a 7 h.p. p.t.o. to operate saws, pumps, compressors, grinders, etc. Shaft is 1'' diameter with 1/4'' woodruff key and keyway.

Sweeper Bearings

GEAR BOX—Oversized ball bearings operating in oil bath. Fully enclosed with oil seals on shafts. Bearings can be adjusted quickly and easily without disassembling gear box.

BRUSH—Brush shaft rolls in two self-aligning, dust sealed pillow-block type ball bearings. Brush chain drive is adjusted by two adjusting screws on brush frame and connected to bearing housing.

Hood

REMOVAL—Five minutes required to remove or replace Handles at ends for ease in removal.

Operates normally with hood attached. Remove hood when sweeping snow or other material that would pack.

Brush

LENGTH-53"; Diameter 30"

SWATH-46".

SPEED-1/10 engine speed.

MATERIAL—Palmyra fiber.

REWINDING—Brush rewound at factory—Reshipped two days after receipt of brush at factory. Additional brush rewinding stations will be set up. Write the Newgren Company for full particulars.

Caster Wheels

WHEEL BEARING AND WHEEL—3/4" bore—21/2" hub with straight roller bearings.

CASTER BEARINGS—Timken bearings factory sealed against all dust and dirt.

TIRE—Silent grip tread—12 x 4.00-6.

Accessories

Spare Tire, Tube and Wheel.

Spare Tire Carier.

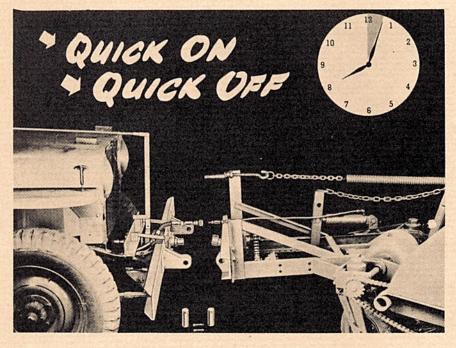
Water Sprinkling Unit.

Includes 55 gallon tanks, hose and fittings, big capacity water pump.

Knee action Caster Wheels for high speed travel.

Engine driven hydraulic pump unit Drip type Oilers for Chain Drives

Chain quards



EASILY AND QUICKLY INSTALLED OR REMOVED

The NEWGREN Rotary Broom can be installed complete, ready to work in a few hours' time. After the original installation is made, the broom can be removed or reattached in a matter of minutes. To remove the broom there are just two pins to pull, the hydraulic line is disjointed, the universal coupling loosened, and that's all.

The Broom is so balanced that when disconnected from the 'Jeep', it remains in position for easy remounting.

There's no need to remove the Broom mounting frame, or front power take-off, when there is other work-for the 'Jeep'



Little Giant turns the Jeep into a one man power sweeper. It sweeps dirt, dust, rubbish or snow. Its 6-foot broom sweeps close to curbs, copings, walls or fences — or anywhere else that Jeep will go.

Little Giant cleans more than 20,000 square yards an hour. It takes the place of the average crew of men pushing brooms and it sweeps at less cost.

Contractors like the ease and speed with which the Little Giant is transported from job to job — it travels as fast as the Jeep will take it.

Sometimes Baker and Dairy trucks drop snow, mud and slush. Little Giant keeps the garages clean and dry.

City managers and street commissioners like Little Giant best with the WATER SPRINKLER attached. It HOLDS DOWN DUST. Dustless sweeping of walks and streets is important on wash day — or when the town is full of traders.

Little Giant's FRONT POWER TAKE-OFF and heavy duty, hand operated clutch make the Jeep a powerhouse on wheels, furnishing 16 horsepower for operating other equipment such as winches, grinders, pumps, etc.

Little Giant Sweepers are also used on trucks and tractors for sweeping country roads, highways, parks, playgrounds, airports and industrial areas — at low cost . . . Neat, clean surfaces are now within reach of the smallest budget.



LITTLE GIANT PRODUCTS INC., PEORIA 3, ILLINOIS

PLOW SHOW

PACKED OR FROZEN SNOW is easily removed by the Little Giant SNOW BLADE. By removing two bolts and a pin the blade is replaced by the broom in less than ten minutes. Like the broom, the blade is easy to adjust. It is raised and lowered quickly from the driver's seat.



SWEEP SNOW

Freshly fallen snow is swept aside quickly. In sweeping wet snow and slush the hood is removed in a jiffy — just to keep the snow from packing between the brush and shell.



HIGH SPEED WITHOUT DUST. The Little Giant SPRINKLER holds down dust. The speed of the water pump and the flow of water corresponds to the speed of the broom — assuring proper flow whether sweeping 4 miles per hour or 8 miles per hour.





QUICK-ON, QUICK-OFF. One man removes or reattaches the sweeper in less than 5 minutes. Just one set-screw to loosen and two pins to remove. The hydraulic line comes apart with only a quarter turn of the wrist. The loose ends seal themselves instantly and automatically. There's no loss of hydraulic fluid





OVER 45 M.P.H. between jobs with NO VIBRATION. New, full swivel, knee-action type casters have off-center, spring suspended hubs. They are similar in design to airplane tailwheels, capable of speeds over 80 miles per hour without vibration.

OPERATING INFORMATION AND SPECIFICATIONS

BROOM—Tough Palmyra fibre, 32 inches in diameter choice of 5 or 6 foot lengths. Filler is held in place by 1/2" wire cable — stapled. Prompt refill service.

BROOM TYPE — One way rotary. Sweeps forward and to the right. Clears a clean path through dust or rubbish as large and heavy as bricks.

BROOM LIFT — Quick acting, hand type, hydraulic pump located at the driver's seat — gives finger tip control when lowering the broom and quickly raises it to any height up to 10", clears all normal obstacles when going to and from jobs.

BROOM ADJUSTMENT — Quick adjustment to any desired sweeping pressure is made by a turn of the hand crank on the sweeper frame.

BROOM DRIVE — Front Power Take-Off — Dry plate clutch — chain drive — precision gears running in oil and the final chain drive. Power take-off is equipped with double sealed New Departure Ball Bearings — lubricated for life. Chains and sprockets are case hardened. Clutch is operated by hand from the driver's seat.

BROOM SUPPORT — A heavy coil spring supports the broom at all times — giving the broom a "floating" ride and preventing excess "digging" in — giving the broom longer life.

MOUNTING - An ordinary mechanic installs the sweeper in less than 4 hours.

STABILITY and COMFORT — Little Giant is balanced and acts as an extra shock absorber to the Jeep. Driving at 60 miles an hour causes a driver no discomfort. Jeep owner, "RED" Barnes of Pekin, Illinois, shown below, reports that the Sweeper and Trailer actually improve the Jeep's steering and riding qualities.

SHIPPING WEIGHT - Sweeper only - 900 pounds.

ATTACHMENTS

SPRINKLER — Holds down dust — easily attached — includes rubber impeller type water pump, sprinkler head, V-belt, pulleys, hoses, pipes, valves and fittings to connect any three standard 55 gallon drums (pyramid fashion) to one outlet.

TRAILER — Arc welded, structural steel, ball bearing equipped, 6 ply tires, choice of ball or hook type hitch — with straps to tie down drums (Trailer is optional. Water supply is carried on the Jeep in absence of trailer).

SNOW BLADE — $\frac{3}{6}$ " curved steel plate, hardened 6 foot long, 3 foot high, $\frac{4}{2}$ inch reversible and replaceable cutting edge. Arc welded steel bracing. Heavy duty.

LITTLE GIANT SWEEPERS ARE GUARANTEED -

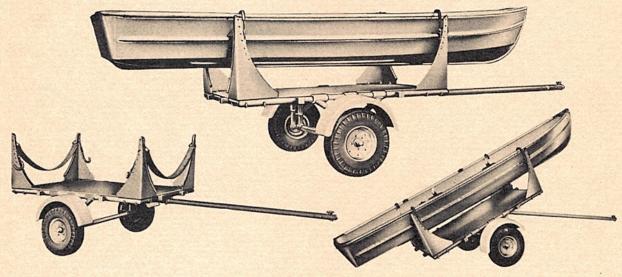


SINCE 1918

LITTLE GIANT PRODUCTS INC., PEORIA 3, ILLINOIS



Sportsman's COMBINATION TRAILER



Boat Cradles Mounted on Platform

Tilts for Loading and Launching.

ADVERTISED in sportsmen's magazines, this Combination Trailer is creating a sensation. It consists of the regular utility trailer with panel racks and short tongue; boat cradles and extra tongue for boats up to 16 ft. long; canvas canopy—all for \$265 retail, plus tax and freight from factory.

Most boat trailers aren't good for anything else. They stand around doing nothing the greater part of the time. But the Natco Sportsman's Combination is different. It's useful the year 'round for work or fun.

Just looking at it from a sporting angle, the Combination Trailer is a dandy outfit. The owner puts on the cradles and fastens his boat in the slings. Then he places the racks in the bottom of the boat, and loads the bows, canopy, and duffel on top. Reaching camp he unloads the boat and launches it. Then he puts the racks on the trailer and uses it for hauling provisions, ice, fuel, and other camp necessities. Afterwards, he mounts the canopy and has a place

with ample room for sleeping two adult people.

No wonder our advertising is bringing hundreds of inquiries for the Sportsman's Combination Trailer! It's just what hunters and fishermen want. You'll find out how true this is when you put the Combination on display. Don't miss this money-making opportunity.

SPECIFICATIONS

Regular utility trailer with low racks as described on the other side of this sheet.

Boat cradle has four uprights, each securely held with four bolts. Easy to mount and detach.

Slings are rubber belting, adjustable to depth of boat.

Four rubber-covered hooks engage gunwales; tightened with turnbuckles. No shifting or chafing to mar finish. Low center of gravity.

Slings and hooks fit whole contour of boat up to 46" wide. Can be extended for boat up to 60" beam by means of simple adaptors.

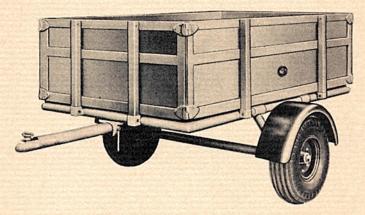
Extra tongue adjustable for boats up to 16 ft. long. Canopy and bows as described on other side.

LITERATURE AVAILABLE. WRITE US FOR INFORMATION.

WELDED PRODUCTS DIVISION, NATIONAL AUTOMATIC TOOL CO., INC., RICHMOND, IND.



A Lot of Trailer for the Price



HERE'S A TRAILER that is made to order for Willys-Overland dealers. It appeals to people who want a lot of value for their money.

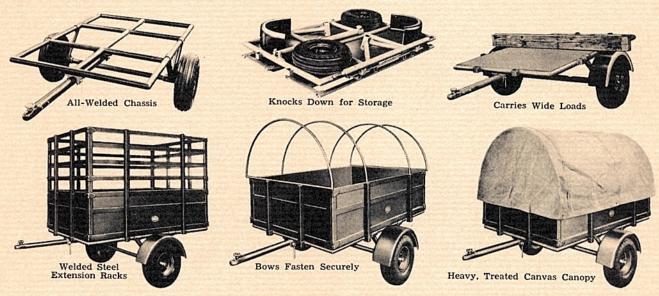
The Natco is the only trailer with wheels and fenders below the platform level. It has a low center of gravity, which means easy loading and safe roadability. Things much wider than the trailer can be hauled on the platform—tanks, troughs, timbers, harrows, gates, hog houses, crates, etc. That's one of the features which put the Natco in a class by itself.

With the panel racks on the platform, you have a utility trailer with a tight bed for hauling grain, feed, fertilizer, gravel, sacks, boxes, tools, and all sorts of other things. Then extension racks can be mounted in sockets on the low panels to haul livestock—hogs, sheep, calves, or a full-grown cow.

Another handy accessory is the canvas canopy. The bows fit in the sockets on the panels and the canopy fits snugly over the bows. The canvas is heavy, treated for shedding water. A zipper-fastened rear opening gives easy access to the interior.

Besides all this, cradles are available for hauling boats, as shown on the other side.

With the Natco utility trailer and accessories, you can furnish just what your customers want—and make a good profit for yourself. Put one or two of these dandy trailers on display and sales are bound to result.



SPECIFICATIONS

4 ft. x 6 ft. chassis built entirely of welded tubing. Stress-proof steel axle spindles with Timken bearings. 6.00 x 9 industrial 4-ply tires; 35 lbs. pressure. Ball hitch. Rated capacity, ½ ton; capable of overload.

Complete trailer with low racks shipped in 74" x 54" x 13" crate, saving freight charges and warehouse space. 90 trailers

can be shipped in 50-ft. car.

Chassis assembled with only four bolts. Owner can easily disassemble for storage if garage or yard space is limited.

Weight, approximately 350 lbs.

Removal of pin permits platform to be dumped. Battleship gray enamel finish; fenders and hubs, red.

LITERATURE AVAILABLE. WRITE US FOR INFORMATION.

WELDED PRODUCTS DIVISION, NATIONAL AUTOMATIC TOOL CO., INC., RICHMOND, IND.

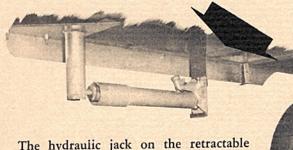




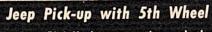
The Mustang Trailer meets the long recognized need for a light, conventional type trailer that can be handled by a JEEP. Interchangeable sides and nose make it adaptable for hauling any conventional load . . . grain, livestock, and general produce.

> RETRACTABLE LANDING GEAR WITH HYDRAULIC JACK PERMITS SHUTTLE OPERATIONS





The hydraulic jack on the retractable landing gear makes it an easy matter to hook-on or remove a loaded Mustang Trailer from the Jeep. This affords shuttle operations. The first trailer, resting on its landing gear, is being loaded. The second trailer, hooked on a Jeep, is enroute. The third trailer, resting on its landing gear, is at the destination being unloaded.



The Jeep Pick-Up becomes a ton and a half carrier when equipped with a fifth wheel and the standard 15-foot Mustang Trailer. 85% of the Mustang Trailer is strong, ht aluminum. The Jeep hauls o LOAD and not deadweight.

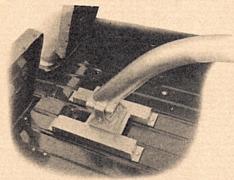


ONLY A MATTER OF MINUTES TO CHANGE A JEEP INTO A TON-AND-A-HALF CARRIER

Merely remove four bolts and pull up the pickup bed with the aid of an inexpensive block and tackle fastened to the beam in your garage or the limb of a tree. Bolt on Fifth Wheel and back pick-up under Mustang Trailer. It's a one-man job and can be accomplished in a few minutes.



SPECIAL "GOOSE-NECK" JEEP HITCH FOR UNIVERSAL JEEP



For the Universal Jeep, an especially designed "goose-neck" replaces the fifth wheel coupling used on pick-up trucks. The hydraulic jacks on the landing gear raise the front of the Mustang Trailer to permit clearance for attaching the "goose-neck." Lower into position, slip in a bolt, and you are ready to go.

TEXAS SHEET METAL AND MANUFACTURING CO.

6114 Forest Park Rd.

Dallas 2, Texas

Jeep owners may have occasional "medium-weight" loads to haul, but not often enough to justify the additional investment in a larger truck. For those truck-capacity loads, snap a Mustang Trailer on your Jeep and you are ready to go.

The 7' by 12' Mustang Trailer is especially designed for use with the Universal Jeep. Over 80% of the gross load is carried on the trailer wheels so the Jeep actually pulls the load instead of carrying it. Because of its low-cost operation and greater versatility, the Mustang Trailer has been adopted by manufacturers, whole-

salers, commercial haulers, and farmers as the ideal auxiliary unit for the Universal Jeep.

Look to the Mustang Trailer as the easy way to handle heavier loads at Jeep economy.



Capacity: 11/2 tons.

Length: 15 feet (Jeep Pick-Up) 12 feet (Universal Jeep)

Width: 7 feet

Wheels: 4.50 E x 16 - Dual

(Truck type)

Tires: 6.50 x 16, 6-ply (Truck

type) Weight of Trailer complete:

7 x 12: Approximately 1660 lbs. 7 x 15: Approximately 1840 lbs.

slatted sides. Grain: 221/4" high (standard) solid sides.

281/2" high (optional) Stock: 57" high-slatted sides.

Brakes: Wagner Electric vacuum controlled, hydraulic

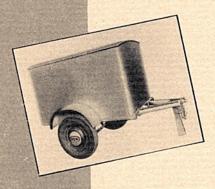
brakes-131/8" x 2".



The New Model "V" Trailer-Van

ALL METAL - FULLY ENCLOSED ROOMY VAN BODY - HAS CAPACITY OF PANEL TRUCK — LARGE REAR DOOR — TAMPER PROOF LOCK FULLY SAFE-GUARDS CONTENTS — TRAILER WHEELS INTERCHANGEABLE WITH MOST PASSENGER CARS

Hundreds of uses in business commerce, trucking, hauling, vacationing, for muscians, etc. Weather resistant metal body, ideal for use under all weather and climatic conditions. New passenger car type wheels, tires and tubes give you the quiet, smooth traveling of your automobile.



TRAILER - VAN

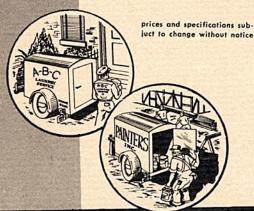
(INSIDE DIMENSIONS)

BODY SIZE: 6' long WIDTH: 4' wide TIRES & TUBES: 600:16 HEIGHT: 4' 2" Trailer comes fully equipped — ready for use.

prices and specifications subject to change without notice

HAS CAPACITY OF OVER 90 CUBIC FEET OF CARRYING SPACE

Trailer-Van also available in 60 cubic foot handy size.





ldeal for merchants, salesmen and business people for deliveries and pick-ups. Building and maintenance men can detach trailer from vehicle and trailer can be left on the job with complete safety of tools, equipment and materials. Does the work of a truck without the expense of a truck. Body construction provides for shelves.

HENSPEN: CABLE ADDRESS

SPEN INDUSTRIES Represented

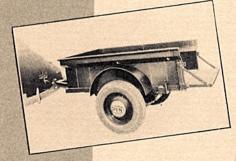
DICKENS 2-3145 1995 PITKIN AVENUE



The New Model "S"

THE FAMOUS ALL PURPOSE UTILITY TRAILER
ALL NEW STURDY REINFORCED STEEL USED THROUGHOUT

Hundreds of uses in business, trucking, farming, vacationing—wherever there's an extra load to be carried. Ideal for use under all weather conditions—in rain, snow, extreme heat or cold.



Model "S"

(WITH TARPAULIN AND BOWS)

Section of the second sections		
OVER-ALL	LENGTH:	105"
OVER-ALL	HEIGHT:	42"
TRACK LIN	E:	50"
WIDTH OF	TOP:	4"
	F BODY:	
WEIGHT:		500 lbs.
TIRES & TU	BES:	600:16
6 POCKETS	FOR BOWS	STOP &
TAIL LIGH	T & LICENSE	BRACKET
	INCLUDED	

prices and specifications subject to change without notice

Tarpaulin Cover Protects Cargo From The Elements



ALL SPEN TRAILERS COME WITH NEW FIRST LINE PASSENGER-TYPE TIRES AND TUBES
TRAILER WHEELS INTERCHANGEABLE WITH YOUR VEHICLE OR JEEP ELIMINATING
SPARE • STURDY CONSTRUCTION • EASY TO ATTACH TO ANY VEHICLE • REINFORCED
TAILBOARD AND FLARED SIDES FOR GREATER STRENGTH • LANDING GEAR OF
STRONG CHANNEL STEEL • HIGHLY MANEUVERABLE THROUGH TRAFFIC • DOES
THE WORK OF A 3/4 TON TRUCK • PERFECT FOR ALL INDUSTRIAL PURPOSES SUCH
AS CARRYING LIGHT MACHINERY, COMPRESSORS, MOUNTINGS, GENERATORS, ETC.

HENSPEN: CABLE ADDRESS

HENRY SPEN & CO., INC.

Represented by SPEN INDUSTRIES CORP. 1995 PITKIN AVENUE • B'KLVN. 7, N. V. • DICKENS 2-3145



EXPERT WORKMANSHIP BY MASTER CRAFTSMEN is the mark of a Mastercraft Trailer. They have the strength and versitility to meet your every requirement. They are perfectly balanced to ride smoothly with no swing or sway. The exclusive Mastercraft dumping feature will save you many hours of time and labor.

Mastercraft gives you more trailer for your money . . . their complete line offers you the right trailer to meet your individual requirements.

1-1/2 TON "SUPER-CARRIER" TRAILER

With double acting and removable head and tail gate and dumping feature. Carpenters can dump loads of lumber as easily and as neatly as with a truck. Plumbers haul pipe, ladders, etc. Painters use it for hauling scaffolds, ladders, paint and equipment. Contractors save hundreds of dollars each year with this versatile unit for every kind of hauling.

SPECIFICATIONS:

All steel 48" wide, 96" long and 18" deep. Body: Electrically welded, heavy pressed steel channel. Frame:

Semi-elliptic special alloy steel. Springs:

Cold drawn seamless steel tubing. Axle:

Wheels: Steel disc with Timken tapered roller bearings or equiv.

6:50 x 16 six ply HD 1st line pneumatic tires and tubes.

Tailgates: Two double-acting and removable. Safety lock with 2" ball, jack & caster.

Coupler:

Combination stop & tail light, rubber covered two lead Misc.: wire, rope hooks.

700 pounds - Carrying capacity 3,000 pounds. Weight:

15" or 16" Jeep wheels available when specified



1/2 TON "ALL PURPOSE" TRAILER

Designed with an exclusive dumping feature which permits dumping in a vertical position without being disconnected from jeep. Rated as the most useful low-priced trailer ever built, the Mastercraft "All-Purpose" 1/2 ton Dump Trailer performs like a champion on the farm or in the city.

SPECIFICATIONS:

All steel 42" wide, 60" long and 12" deep. Body:

Electrically welded structural angle iron. Frame:

Semi-elliptic special alloy steel. Springs:

Cold drawn seamless steel tubing. Axle:

Steel disc with Timken tapered roller bearings Wheels:

or equivalent.

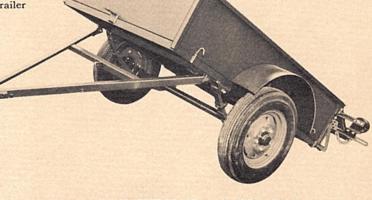
4:50 x 12 four ply 1st line pneumatic tires and tubes. Tires:

Double-acting and removable. Tailgate:

Safety lock with 2" ball, jack & caster. Coupler:

Combination stop & tail light, rubber covered two lead wire, rope hooks, parking leg. Misc.:

Weight: 350 pounds - Carrying capacity 1,000 pounds



Mastercro

If it's a trailer MASTERCRAFT can build it. Single or tandem axles, single or dual wheels, with or without electric brakes, in any size, for any purpose, up to 4 tons.

Also send for illustrated literature on Mastercraft's complete line of boat trailers ranging from a 500 pound to an 8000 pounds carrying capacity for boats 10' to 28' in length.

310 MAPLE STREET . ROCKY HILL, CONN.

1/4 TON "JUNIOR" TRAILER

Mastercraft's answer to the need for a smaller, lighter, lowpriced trailer. The 1/4 ton "Junior" is ideally suited for country clubs, camping trips and general work on suburban estates. Ruggedly built . . . with plenty of stamina for long trips over good roads or bad.

3/4 TON "CARGO" TRAILER

This is the ideal model for those requiring a trailer with greater carrying capacity than our 1/2 ton model and who do not particularly require the dumping feature. It has no equal for cargo use around your home, farm, estate, summer camp

SPECIFICATIONS:

Body: Frame: Springs: Axle: Wheels:

Tires:

Body: Frame:

Axle: Wheels:

Tires:

Coupler:

Misc.:

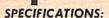
Springs:

All steel 48" wide, 72" long and 14½" deep. Electrically welded, pressed steel channel. Semi-elliptic special alloy steel, Cold drawn seamless steel tubing. Steel disc with Timken tapered roller bearings or equivalent.

Tailgate: Coupler:

Misc.: Weight:

Steel disc with timken tapered roller bearings or equivalent.
5:50 x 16 four ply pneumatic tires and tubes. Double acting and removable.
Safety lock with 17/8" steel ball.
Combination stop & tail light, rubber covered two lead wire, rope hooks, parking leg.
430 pounds — Carrying capacity 1,500 pounds.



All steel 36" wide, 48" long and 12" deep. Electrically welded structural angle iron. Frame: Springs: Quarter-elliptic special alloy steel.

Cold drawn seamless tubing.

Steel discs with Timken tapered roller bear-Wheels: ings or equilvalent.

4:00 x 8 four ply 1st line pneumatic tires

and tubes.

Tailaate: Removable.

Axle:

Coupler: Safety lock with 17/8" steel ball.

Combination stop & tail light, rubber covered Misc.: two lead wire, rope hooks and parking leg. Weight: 175 pounds - Carrying capacity 500 pounds.

1-1/4 TON "DUMP" TRAILER

This model is a real "Bull Dog" in strength. For heavy hauling under all conditions our 11/4 ton Dump has proven to be the most sturdy and dependable trailer ever put on the market . . . "it can really take it".

3/4 TON "DUMP" TRAILER

All kinds of light to medium hauling can be easily and quickly done with this versatile trailer. Its dumping feature alone saves countless hours of time, labor and money on farms, golf courses, cemeteries, estates, etc.



SPECIFICATIONS:

All steel 48" wide, 72" long and 18" deep. Electrically welded, pressed steel channel. Semi-elliptic special alloy steel.
Cold drawn seamless steel tubing.
Steel disc with Timken tapered roller bearings or equivalent.

6:00 x 16 six ply pneumatic tires and tubes.

Double-acting and removable, Tailgate:

Safety lock with 2" ball, jack & caster.

Combination stop & tail light, rubber covered two lead wire, rope hooks. 515 pounds — Carrying capacity 2,500 pounds.

SPECIFICATIONS:

15" or 16" Jeep

wheels available

when specified

All steel 48" wide, 72" long and 141/2" deep. Electrically welded, pressed steel channel. Semi-elliptic special alloy steel. Cold drawn seamless steel tubing. Steel disc with Timken tapered roller bearings or equivalent.

5:50 x 16 four ply pneumatic tires and tubes. Double-acting and removable.

Safety lock with 17/8" steel ball.

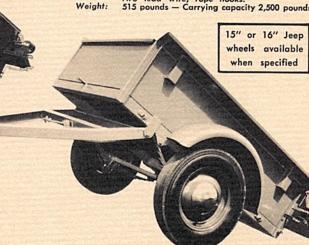
Combination stop & tail light, rubber covered two lead wire, rope hooks, parking leg. Body: Springs:

Wheels:

Tailgate:

Misc.: two lead wire, rope hooks, parking leg. 460 pounds — Carrying capacity 1,500 pounds.

Mastercraft

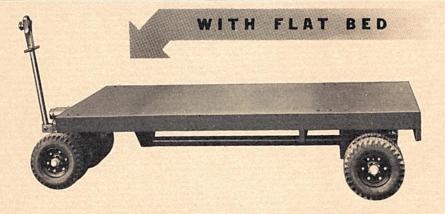


310 MAPLE STREET . ROCKY HILL, CONN.

THE CHAMPION TRAIL-FLAT



FOR LIGHT OR HEAVY DUTY WORK-FOR LOW OR HIGH SPEED TRAILING!





MOT JUST ANY TRAILER

—BE SURE IT'S A CHAMPION!

TRAILS IN TANDEM—OR AS A SINGLE UNIT

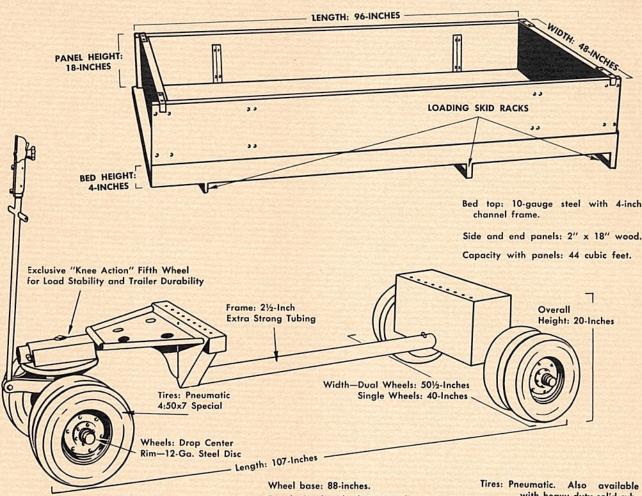
The Champion DOO-ALL Chassis with the TRAIL-FLAT Body makes a general all-purpose hauling unit. It is especially adapted to hauling finished or semi-finished parts, as well as bulk material—an invaluable piece of equipment on the farm, in the factory, in industry, and for private use. It is constructed for long wear with 4-inch channel frame, 2-inch angle bracing, and a 10-gauge all-steel top. Low loading height of 24 inches adapts it to all types of material handling! No tools needed to add side and end panels-steel pins that fit the holes provided in the top of the bed hold them securely in place. Hangers are provided under the body for all-steel loading skids. Constructed with special "Knee action" fifth wheel for load stability, and strong one-piece frame. Simple to change-over-remove four bolts-and lift off the body. Remember-all Champion Special Bodies are interchangeable on the same Chassis!

CHAMPION COMPANY

CHAMPION

DOO-ALL TRAILERS

SPECIFICATIONS
TRAIL-FLAT BODY AND DOO-ALL CHASSIS



WRITE

for further descriptive literature and complete specifications.

Tread: Single wheels, 16¾" front; 33½" rear.

Dual wheels, 27" front; 44" rear.

Axles: 1-inch heat treated steel.

Bearings: High speed Timken Tapered Rollers.

Weight: Trailer complete, single wheels — 700 lbs.

dual wheels - 760 lbs.

with heavy duty solid rubber or steel wheels.

Hitch: 1%" Standard ball. Also available with Quick or Pintle Hitches on 41" tongue.

Load limit of chassis: Dual wheels

—3 tons, low speed; 1½ ton,
highway speed.

Load limit of chassis: Single wheels

-1½ ton slow speed; 1 ton
highway speed.

CHAMPION COMPANY

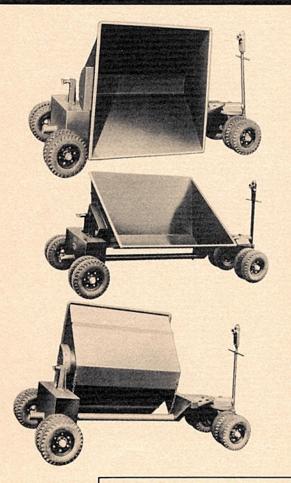
THE CHAMPION ROLL-DUMP

A CHAMPION DOO-ALL TRAILER

THE
PERFECT
WORKING
COMPANION
FOR
The UNIVERSAL



FOR LIGHT OR HEAVY DUTY WORK-FOR LOW OR HIGH SPEED TRAILING!



TRAILS IN TANDEM OR AS A SINGLE UNIT

Step up material handling jobs and reduce costs at the same time with the Champion DOO-ALL Chassis and the ROLL-DUMP Hopper. It's available with a variety of hopper sizes to suit your individual needs for bulk material handling on the farm, in the factory, in industry, and for private use.

Adjust the Champion ROLL-DUMP to a low loading height—lower than any other trailer per cubic foot carrying capacity. It's an "automatic" side-dump trailer that loads or unloads at either side and locks in five different loading positions — no danger of tipping! Trails at low or high speed as a single unit or in tandem — tracks straight — will not whip! It's built with Champion's exclusive DOO-ALL Chassis, equipped with special "knee action" fifth wheel for load stability, and strong one-piece frame. Remove two bolts—lift off the ROLL-DUMP Hopper—and the DOO-ALL Chassis is ready for use with other specially built Champion Bodies. Remember — all Champion Special Bodies are interchangeable on the same Chassis!

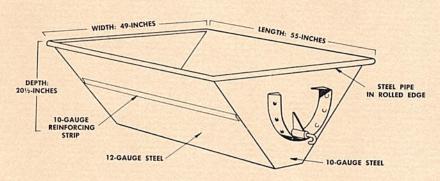
NOT JUST ANY TRAILER - BE SURE IT'S A CHAMPION!



CHAMPION

DOO-ALL TRAILERS

SPECIFICATIONS



for further descriptive literature and complete specifications.

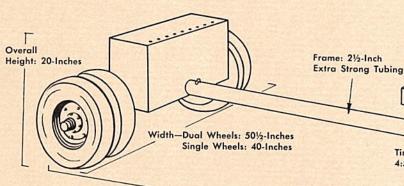
Capacity: 34-cubic yards, struck.

Overall height of trailer: 34-inches.

Loading height of trailer:

28", 1st adjustment.

22", 2nd adjustment.



Exclusive "Knee Action" Fifth Wheel for Load Stability and Trailer Durability

Tires: Pneumatic 4:50x7 Special

Wheels: Drop Center - Length: 107-Inches Rim-12-Ga. Steel Disc

Wheel base: 88-inches.

Tread: Single wheels, 1634" front; 331/2" rear. Dual wheels, 27" front; 44" rear.

Axles: 1-inch heat treated steel.

Bearings: High speed Timken Tapered Rollers. Lubrication: 2 pressure fittings at 5th wheel.

Weight: Trailer chassis, single wheels - 310 lbs. dual wheels — 370 lbs. Weight: ¾ cu. yd. hopper — 220 lbs.

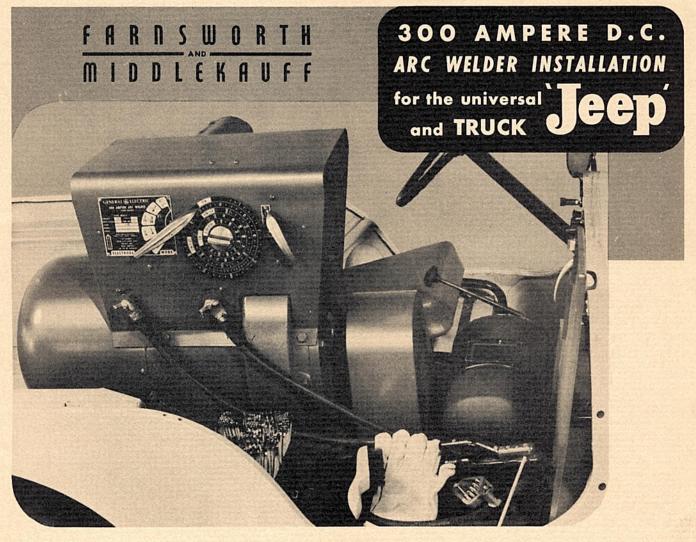
Tires: Pneumatic. Also available with heavy duty solid rubber or steel wheels.

Hitch: 1%" Standard ball. Also available with Quick or Pintle Hitches on 41" tongue.

Load limit of chassis: Dual wheels — 3 tons, low speed; 1½ ton, highway speed.

Load limit of chassis: Single wheels - 11/2 ton slow speed; 1 ton, highway speed.





GENERAL ELECTRIC TYPE WD-43 SPECIFICATIONS AND DATA

General: The General Electric Type WD-43 direct-current arc-welder generator is a single-operator type machine with a NEMA rating of 300 amperes at 40 volts D.C., 60% duty cycle, 50° C. temperature rise. The generator design is based on many years of experience and proven high-quality fast-welding performance. High generating speed permits compact, light weight design and smooth, vibrationless operation. Careful selection of materials and rigid inspection promotes maximum life service. The generator is self-excited, avoiding the use of a separate exciter with it's accompanying weight and extra maintenance.

Electrode Sizes: From 1/6" to 1/4". 5/6" for occasional work.

Current Range: Minutely adjustable from 45 to 440 amperes. D.C.

Welding Current Selection: A five point electrode selector is provided with a dial calibrated in electrode sizes. Placement of the control lever over the correct size indication pre-sets proper current for any given job without subsequent adjustment.

Welding Current Adjustment: Precision control is provided by a large scale, specially calibrated dial. Movement of the dial allows smooth, continuously variable current adjustment with desired current, in amperes, indicated on the dial under the tip of the electrode selector control lever. A special control switch permits quick change from straight to reverse polarity.

Rotation: Counter-clockwise from commutator end of generator.

Speeds: (full load) Generator 3500 R.P.M. Engine 2200 R.P.M.

Speed Control: The Jeep engine is equipped with a special centrifugal governor, pre-set when generator installation is made, which assures uniform engine speed despite fluctuating current loads. It is easily disengaged when speed control is not needed.

Overspeed Control: A simple, pre-set, centrifugal type governor is built into the commutator end of the generator. Connected in series with the Jeep ignition system and adjusted to cutout at approximately 4000 R.P.M. it protects the generator against excess speed arising out of engine throttle or governor failure.

Bearings: High precision, extra width, cartridge type, annular ball bearings sealed and shielded for protection and long life.

Cooling: The forced-air ventilating system keeps the generator at a low, uniform operating temperature even during heavy-duty service. Internal temperatures are maintained well within safe limits at rated capacity loads while welding manually and heavy over-loading, for short intervals, produces no harmful results.

Protection: Generator is weather resistant and drip-proof.

Generator Drive: Power from the Jeep engine, through the front power take-off, is transmitted to the generator by a set of 6 matched "V" belts runing on specially designed sheaves having a ratio of 1 to 1.588. The drive is completely encased for protection of operator and mechanism. Belt adjustment is positive.

DESIGNERS AND BUILDERS OF MOTOR VEHICLE EQUIPMENT ESPECIALLY FOR WILLYS-OVERLAND JEEPS AND TRUCKS

300 AMPERE D.C.

ARC WELDER INSTALLATION

for the universal Jeep

and TRUCK

GENERAL ELECTRIC

GENERAL DESCRIPTION

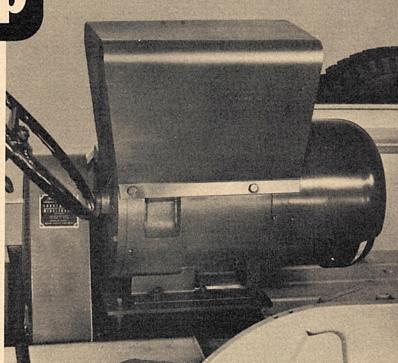
The General Electric Type WD43 welding generator was especially designed for installation in the Universal Jeep. It is built into the vehicle and is actually a component thereof. The generator is bolted to a heavy adjustable base which in turn is rigidly attached to the Jeep frame by means of suitable re-inforcing cross-members and brackets.

This unique combination of Jeep and generator was used by the Services in many forward areas during the war where it was required to travel over rough terrain, work at any angle, regardless of climatic conditions and operate continuously over long periods far from service and maintenance facilities. Extreme mobility of the Jeep and the flexibility of the generator are but two of the many features of this compact unit.

Two distinct functions are performed by the powerful Jeep engine, propulsion of the entire vehicle and power for the generator.

Thus a single source of power results in a saving of time, effort and initial and maintenance costs. Thereby the Jeep Welding Unit is a self-propelled, self-powered mechanism and becomes a most highly useful tool for welding on location in construction, service and repair operations in situations where power for welding is not readily available.

The Welding Unit can well serve a wide variety of industries but it is most ideally suited to away from shop operations. Manufacturers, contractors, public utilities, railroads, water, gas and pipeline installers and others will all find numerous jobs which the Jeep Welder can do faster and more economically than any other combination of equipment. Typical jobs are general steel construction, patrol and maintenance of pipe lines and rails and erection and repair of steel towers, oil storage tanks and boilers.



FARDSWORTH

MIDDLEKAUFF

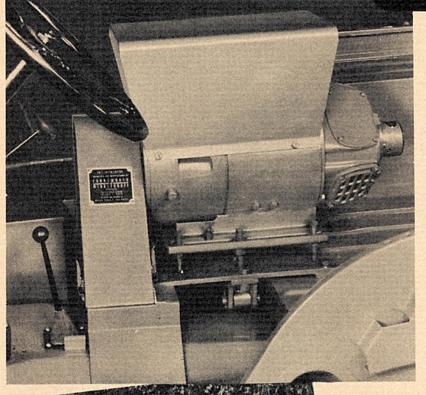
INCORPORATED

1535 KETCHAM AVENUE - TOLEDO 8, OHIO

FOR COMPLETE DETAILS AND INFORMATION WRITE FARNSWORTH AND MIDDLEKAUFF INC.

FARNSWORTH MIDDLEKAUFF

ARC WELDER INSTALLATION for the universal Jeep



GENERAL ELECTRIC TYPE WD 3200B S PECIFICATIONS

General: The General Electric Type WD-3200B directcurrent arc-welder generator is a single-operator type machine with a NEMA rating of 200 amperes at 30 volts D.C., 50% duty cycle, 50° C. temperature rise. The generator design is based on many years of experience and proven high-quality, fast-welding performance. High generating speed permits compact, light weight design and smooth, vibrationless operation. Careful selection of materials and rigid mechanical inspection promotes maximum life service.

Electrode Size: From 16" to 36". 14" for occasional jobs.

Current Range: Minutely adjustable from 30 to 250 amperes D.C.

Welding Current Selection: Three current range terminals, each calibrated for correct electrode size $(\frac{1}{26},\frac{3}{26}$

Welding Current Adjustment: Movement of rheostat indicator dial allows smooth, continuously variable current adjustment. Three scales, calibrated in amperes and marked with electrode sizes corresponding to current range terminals, permit exact setting.

Rotation: Counter-clockwise viewing commutator end of machine.

Speeds: Generator 3500 R.P.M. at full load. Engine 1983 R.P.M.

Speed Control: The Jeep engine is equipped with a special centrifugal governor, pre-set when generator installation is made, which assures uniform engine speed despite fluctuating current loads. It is easily disengaged when speed control is not needed.

Overspeed Control: A simple, pre-set, centrifugal type governor is built into the commutator end of the generator. Connected in series with the Jeep ignition system and adjusted to cutout at approximately 4000 R.P.M. it protects the generator against excess speed arising out of engine throttle or governor failure.

Bearings: High precision, extra width, cartridge type, annular ball bearings sealed and shielded for protection and long life.

Cooling: The forced-air ventilating system keeps the generator at a low, uniform operating temperature even during heavy-duty service. Internal temperatures are maintained well within safe limits at rated capacity loads while welding manually and heavy over-loading, for short intervals, produces no harmful results.

Protection: Machine is water resistant and completely drip-proof.

Generator Drive: Power from the Jeep engine, through the front power take-off, is transmitted to the generator by a set of 4 matched "V" belts running on specially designed sheaves having a ratio of 1 to 1.764. The drive is completely encased for protection of operator and mechanism. Belt adjustment is positive.

DESIGNERS AND BUILDERS OF MOTOR VEHICLE EQUIPMENT ESPECIALLY FOR WILLYS-OVERLAND JEEPS AND TRUCKS

200 AMPERE D.C. ARC WELDER INSTALLATION for the universal Jeep and TRUCK

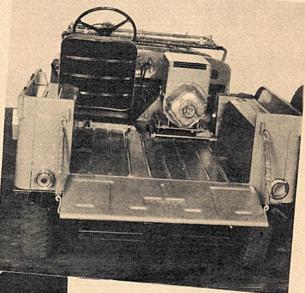
FARDS WORTH MIDDLEKAUFF

GENERAL ELECTRIC TYPE WD 3200B GENERAL DESCRIPTION

This General Electric Type WD3200B welding generator was especially designed for installation in the Universal Jeep. It is built into the vehicle and is actually a component thereof. The generator is bolted to a heavy adjustable base which in turn is rigidly attached to the Jeep frame by means of suitable re-inforcing cross-members and brackets.

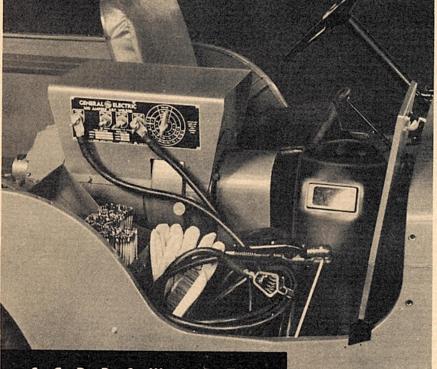
This unique combination of Jeep and generator was used by the Services in many forward areas during the war where it was required to travel over rough terrain, work at any angle, regardless of climatic conditions and operate continuously over long periods far from service and maintenance facilities.

Extreme mobility of the Jeep and the flexibility of the generator are but two of the many features of this compact unit.



Two distinct functions are performed by the powerful Jeep engine, propulsion of the entire vehicle and power for the generator. Thus a single source of power results in a saving of time, effort and initial and maintenance costs. Thereby the Jeep Welding Unit is a self-propelled, self-powered mechanism and becomes a most highly useful tool for welding on location in construction, service and repair operations in situations where power for welding is not readily available.

The Welding Unit can well serve a wide variety of industries but it is most ideally suited to away from shop operations. Manufacturers; contractors; public utilities, railroads, water, gas and pipeline installers and others will all find numerous jobs which the Jeep Welder can do faster and more economically than any other combination of equipment. Typical jobs are general steel construction, patrol and maintenance of pipe lines and rails and erection and repair of steel towers, oil storage tanks and boilers.



FARDSWORTH

MIDDLEKAUFF

INCORPORATED

1535 KETCHAM AVENUE - TOLEDO 8, OHIO

FOR COMPLETE DETAILS AND INFORMATION WRITE FARNSWORTH AND MIDDLEKAUFF INC.

The KING Front End Winch for Willys Jeep



GHT SIDE VIEW LEFT SIDE VIEW

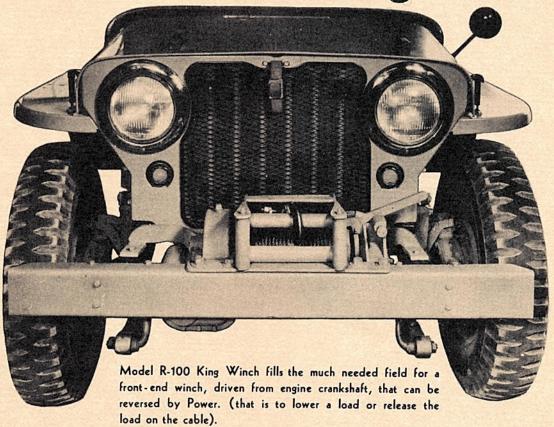
The Model 100 King Winch for Civilian Willys Jeep incorporates the same dependable features that have been used for years on passenger cars and half ton pick-ups in oil fields all over the world. These rugged and dependable features together with the latest improvements, such as centralized lubrication and improved drive-shaft suspension, assures a "front-end" winch that will give trouble-free service and long life. Power for the winch is taken from the front end of the engine crankshaft by means of a solid steel sheave and a patented sliding clutch using rubber contact blocks to absorb shock and mis-alignment. This clutch assures a positive drive, eliminates slippage, and can be engaged or disengaged at any time (even under load and with the engine idling). The winch sets directly in the center on front of the Jeep and is easily and safely operated by one man. Recommended cable 150' 5/16" 6x19 wire rope.

Sold exclusively by Willys Distributors and Dealers-

KOENIG IRON WORKS

2214 WASHINGTON AVENUE HOUSTON 10, TEXAS

KING FRONT END Friction-Reversing WINCH



FEATURES

- One Piece aluminum winch housing containing worm and gear drive as well as friction clutch and reversing mechanism.
- Pulmore clutch running in oil (Product of Borg-Warner Corp.)
- · Heat-treated gears.
- · Worm mounted on Timken bearings.
- Clutch shaft mounted on ball bearings.
- Four-way cable guide roller assembly—prevents running cable over sharp corners. Will not pinch cable when contacting 2 rollers at same time.
- · Cable drum guard-prevents cable jumping the winch drum.
- Fabricated steel drum—withstands severe service—practically indestructible.
- Back-lash brake on winch drum-prevents fouling when free-spooling cable.

- Cast steel sliding clutch on winch drum.
- Ground and Polished stress-proof drum shaft, worm shaft and clutch shaft
- Patented non-slipping motor clutch—the same clutch as used for over nine years on all Model 100 King Winches. Applies absolutely no end-thrust to engine crank-shaft.
- Friction clutch as well as motor clutch operated from inside vehicle.

All King Winches adaptable to Willys Jeep sold exclusively by Willys Distributors and Dealers

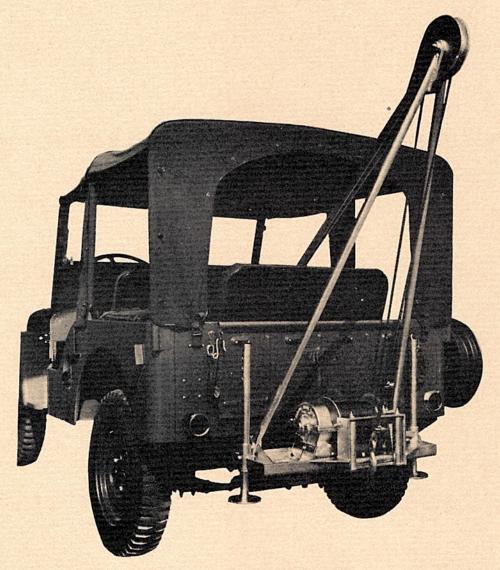
KOENIG IRON WORKS

2214 WASHINGTON AVENUE HOUSTON 10, TEXAS

Model 100

King Winch

JEEP Draw-bar Installation



Installed on Jeep draw-bar without drilling any holes. Simply remove the rear pulley-drive assembly and install the winch using the same drive-shaft as used between pulley-drive and power take-off. Correct coupling is furnished to fit drive-shaft universal joint.

When rear pulley drive is not needed for other purposes all that is necessary is the power take-off on transfer case and drive-shaft as furnished by Willys-Overland.

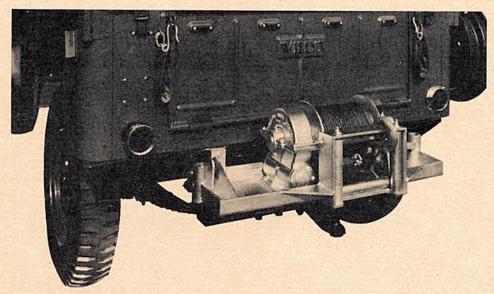
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HOUSTON 10, TEXAS

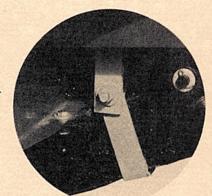
Winch and Platform Only



Winch and platform only can be purchased where "A" frame is not needed. The "A" frame may be added at a later date, if desired, as all provisions are made on the winch platform.

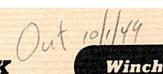
FEATURES

- Both platform and "A" frame of all welded construction.
- Four-way cable guide roller assembly which will not cramp cable.
- All rollers bronze bushed and have grease fittings provided.
- It is not necessary to purchase rear pulley-drive assembly when not needed for other purposes. Power take-off and drive shaft as furnished by Willys is all that is needed.
- The same proven Model 100 KING WINCH is used.
- "A" frame anchor bar strain is applied direct to Jeep frame by means of 2 adjustable clamps.
- Adjustable stands on Winch platform permits pulling greater loads when the Jeep remains in one position (such as pulling pipe, etc.).
- "A" frame is adjustable in and out.



KOENIG IRON WORKS

HOUSTON 10, TEXAS 2214 WASHINGTON AVENUE

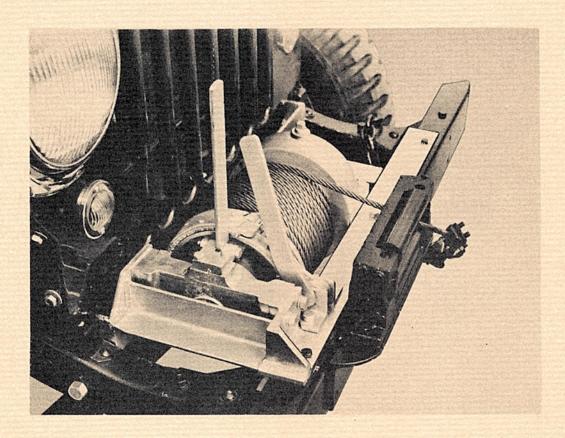


RAMSEY

MODEL 101 ALUMINUM FRONT-END WINCHES

With the Enclosed, Self-Aligning, Jaw Clutch

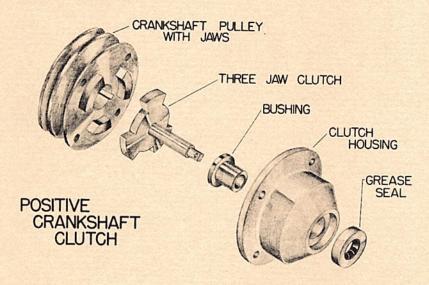
For Universal Jeep - 2 and 4-wheel drive Jeep Trucks - Jeep Station Wagon



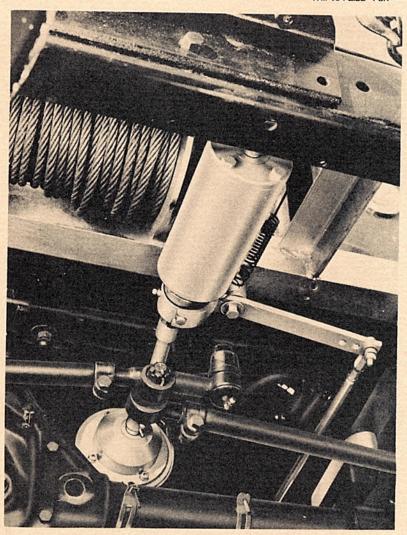
Complete winch installation kits are now available for the 2-wheel and 4-wheel drive Jeep Trucks, and the Jeep Station Wagon, as well as the Universal Jeep. Only 3 to 4 hours is required to install the units on Willys-Overland vehicles.

In service throughout the world, the RAMSEY WINCH has prevented many costly and time-consuming delays to seismograph, geophysical, and many other types of field crews. Designed for pulling vehicles out of deep mud or over rough terrain, it is also in wide use among ranchers, lumbermen, and sportsmen. The Jeep units equipped with a BRAKE ATTACHMENT are very useful for all kinds of light hoisting.

The RAMSEY Model #101 Aluminum Front-End Winch is driven from the front end of the crankshaft by an enclosed, self-aligning, jaw type clutch—AND NO POWER TAKEOFF IS REQUIRED. The clutch cannot be installed out of line, or get out of line after installation. The Positive Crankshaft Clutch permits quick and easy changing of fan belts without disassembling the clutch. As the jaws are precision made and run in grease, the clutch is easily engaged with the engine idling, and may be easily disengaged at any time, even under a load. No sand, water, or mud can enter the clutch housing and affect the operation. The clutch is operated from the driver's seat by means of a lever on the floorboard equipped with a detachable handle and a safety latch to prevent accidental engaging of the clutch. (over)



PAT. APPLIED FOR



THE RAMSEY WINCH is equipped with a special heavy duty worm and gear with a ratio of 60 to 1. The one-piece worm and shaft is of SAE No. 4140 steel, heat-treated. ground and polished. worm gear is of best grade gear bronze, extra wide, with a sturdy steel hub. Castings are of a high tensile aluminum alloy, and the gear housing has oil grooves to insure proper lubrication of the bearings at all times. Weight of the winch only is 32 lbs., and the weight of the entire unit including frame, clutch assembly, cab control, cable roller, cable and tail-chain is only 103 lbs. A poppet type drag brake built into the worm housing operates against the cable drum to prevent back-lashing of the line when free-spooling the winch. The worm housing is fitted with both a filler plug and a drain plug. An all-steel 4-way cable roller is furnished to provide for any angle of pull.

A 100 ft. length of best grade 5/16" cable should be used with the Ramsey Model #101 Winch..

For further information and literature write the Ramsey Winch Mfg. Co., at the address below. Foreign inquiries should be addressed to the Willys Overland Export Corporation, Toledo, Ohio.

RAMSEY WINCH MANUFACTURING CO

Phone 9-4651

Box 3035, Tulsa 8, Okla.

HERE'S A LOW-COST, VERSATILE,



CAPSTAN WINCH FOR FARM AND INDUSTRY

ON THE JOB-FAST

Mounted on the 'Jeep' frame between the front bumper and the radiator grille, it is handy and can be put to work immediately. There is no cable to unreel—merely attach a rope to the object to be moved, throw two loops around the capstan hub, and engage the winch. When the job is completed, simply slide rope off, disengage winch, and drive away.

MANY USES

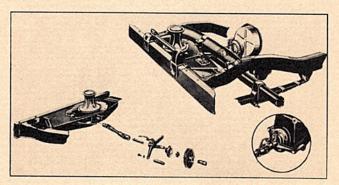
The number of jobs that this capstan-type winch can perform satisfactorily is almost unlimited. Pulling mired cars and equipment from mud, sand, and snow; stretching wire fencing; removing stones and stumps from fields; moving heavy machinery are just a few of the many applications.

OPERATOR PROTECTION

Mounted on the front of the engine and driven through a special fan pulley, the unit is equipped with an easily-replaced shear pin which helps to protect operator and mechanism from injury.

GENERAL SPECIFICATIONS

Weighing but 107 pounds, unit is factory-mounted or can be attached in the field. It is protected by the 'Jeep' frame on both sides and the heavy-duty bumper in front. Designed for long life, the drive shaft is mounted in ball-bearings. Worm gears are made of bronze—all gears ride in oil. When operating winch, 'Jeep' engine speed should be limited to 1,200 rpm which exerts a 5,000-pound pull at approximately 19 feet per minute. Gear ratio: 75 to 1.



OBTAIN THIS FACTORY-APPROVED EQUIPMENT FROM YOUR WILLYS-OVERLAND DISTRIBUTOR OR DEALER

MANY APPLICATIONS



FOR SPORTSMEN



Photograph above illustrates just one of the many applications of capstan winch for sportsmen, campers.

FOR UTILITIES



Here Universal 'Jeep' and capstan winch take slack out of under-ground electric cable in few minutes—a slow tedious job by hand.

OBTAIN THIS FACTORY-APPROVED EQUIPMENT FROM YOUR WILLYS-OVERLAND DISTRIBUTOR OR DEALER

TURNER Woodworking Equipment



Money Makers -right now and year after year,

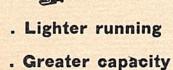
On all sides, the TURNER reputation for quality is a growing, living force that causes farmer preference wherever TURNER woodworking equipment is sold. Each TURNER machine is a result of inventive genius, mechanical skill and practical experience, famous for dependability and trouble-free performance. And each is backed by a guarantee simply stated that "we expect to meet any claim, adjust any difference of opinion with an impulse of a warm heart and a sincere desire to make TURNER-MADE equipment a source of profit to every customer". The following machines are easily powered by Jeep, for low-cost, efficient operation.

TURNER . Saw Mill . Gang Edger . Planer and Matcher . Gang Saw

TURNER Saw Mills

TURNER Pony Saw Mill is a favorite for both farm and custom work. Available in: (1) Complete ball and roller bearing saw mill, (2) dust-

proof plain bearing mill, except for ball and roller bearing mandrel, (3) dust-proof babbitt bearing mill, with 14, 16 or 20 foot carriage (or 10 foot carriage for sawing cross ties, if desired). 33 inch head block openings. Handles up to 24 foot logs and 52" saw blade. Saws from 3 to 10 thousand foot daily of premium lumber. Write for complete saw mill catalog.



. Easier setting

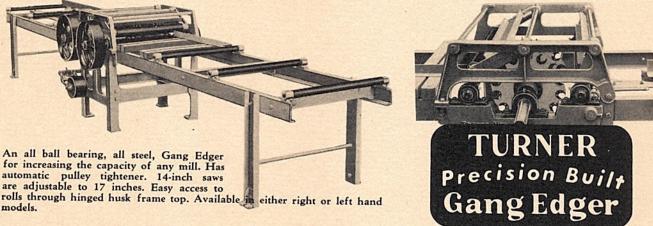
. Less power to operate

. Less fuel cost per 1000 feet



TURNER Woodworking Equipment

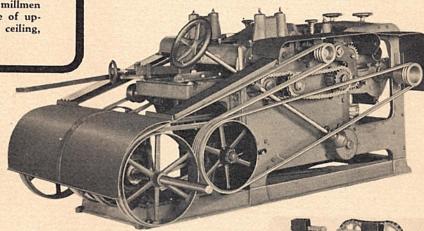
Page 2



Planer and Matcher

A rugged, ball, bronze and roller bearing, V-Belt Drive Planer and Matcher of engineered simplicity . . . for practical millmen requiring low cost reliable manufacture of upto-four sides general dressing, flooring, ceiling, siding — and other mill work.

Capacity: Single surface 20" wide; double surface 18" wide by 6" thick; four side dressing 12" x 4"; matches 12" wide. Handles stock 1/2" to 6" thick. Feeds 65 to 75 feet per minute.

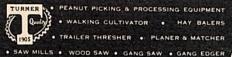


Gang Saw [Tobacco Stick Machine]

The TURNER Tobacco Stick Gang Saw cuts all manner and kinds of slats up to 2" thick, of varying widths. It quickly converts scrap lumber into ready cash. Will handle 1-1/4" lumber of any width. Cuts from 12 to 15 thousand sticks per 10 hour day, cutting 3 sticks per time with 3 blades.

TURNER
Dealer — Parts
SERVICE

Write for further information



TURNER Manufacturing Co.

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

Wrecker

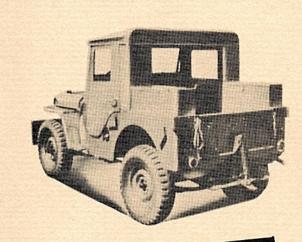
See TRUCK-S

MEET YOUR NEW

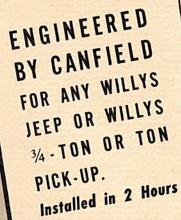
MONEY MAKER



JEEP PICK-UP CONVERTED INTO A WRECKER IN 60 SECONDS



FOLDED AND STOWED YOUR JEEP AGAIN A PICK-UP





FOLDING - TAKE-OFF POWERED

WRECKER

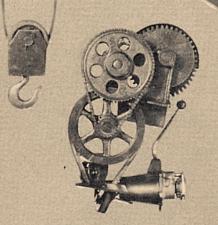
FOR COMPLETE DETAILS WRITE TO

BENNY FRIEDMAN'S WILLYS - DETROIT

DISTRIBUTORS
3363 MICHIGAN AVE. DETROIT
Exclusive Manufacturer's Representatives



• ENTIRE WRECKER UNIT FOLDS INTO 6 INCHES OF SPACE ABOVE FLOOR WHEN STOWED

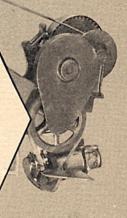


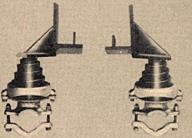
WINCH TAKE-OFF POWERED

Here at last is a whiz of a power take-off that completely answers all the requirements for complete control and easy handling. The tremendous power of the gear ratio can easily lift any passenger car, as well as drag cars from discher and similar situations.



Complete installation drawings and instructions are shipped with each "Little Giant" folding wrecker. Two mechanics with ordinary tools can install this wrecker in any jeep—34 ton—or one ton Willys vehicle in approximately 2 hours. When ordering, please specify whether wrecker designed for jeep, 34 ton or one ton pickup is desired.





HELPER

trees apper springs uter utrached permanently to the rear sale housing. The bearing brackets are likewise attached permanently to the frame of your pick-up. They eliminate the possibility of damage to reor springs while towing heavy vehicles or carrying unusual loads. These helper springs, incidentally, increase the load potential of your regular pickup. The "Little Giant" folding wrecker folds into a flat collapsed position which utilizes only six inches of space above the floor of your pickup. It is shipped complete with all necessary accessories—including helper springs and frame brackets for the rear axle. The outline illustration on this page shows the "Little Giant" wrecker extended ready for use. The complete wrecker, packed ready for shipment, weighs 562 pounds. The "Little Giant" folding wrecker is scientifically engineered by Canfield and is designed so that the entire load is properly distributed and is borne by the frame of the pickup. No frame reinforcing is necessary. The outboard brackets for the helper springs, are attached to the frame directly over the rear axle, and do not in any way weaken the frame assembly.



LITTLE GIANT WRECKER

Engineered to Fit

UNIVERSAL JEEP or the JEEP PICK-UP TRUCK

BENNY FRIEDMAN'S ... WILLYS-DETROIT DISTRIBUTORS Exclusive Mfg. Representatives 3633 MICHIGAN AVE. . . DETROIT 16, MICH.