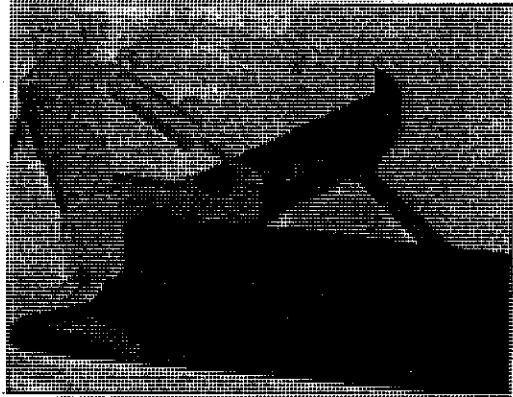




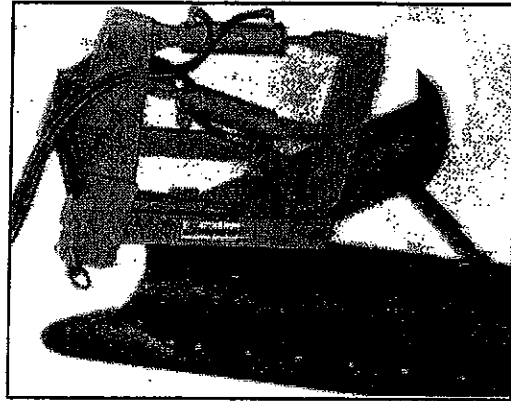
**Eversman**  
by Art's-Way

# Ditchers

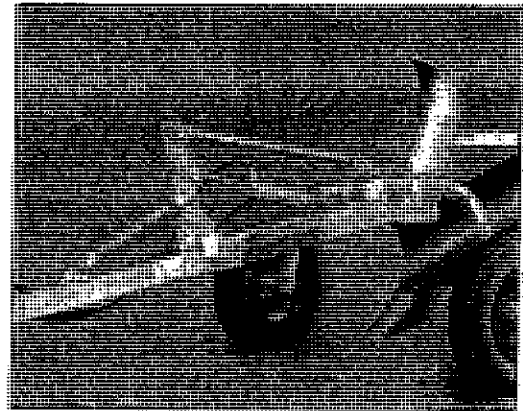
Rear Mount Models  
H5-1 — H5-3 — H-7



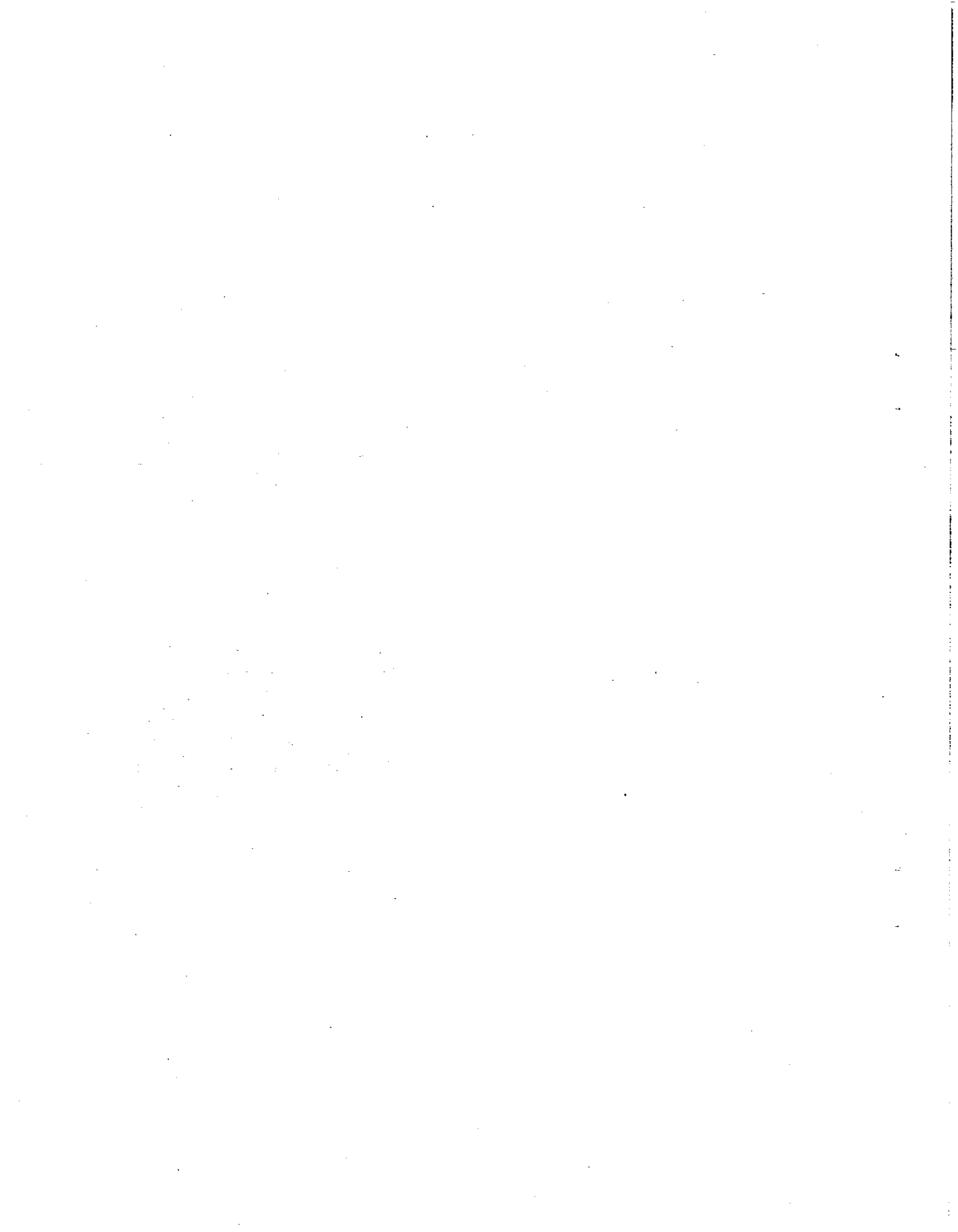
Rear Mount Models  
H5-ER — H7-ER



Rubber Mount Models  
D-5 — D-7



**Operator's & Parts Manual**



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## To The Owner

Congratulations on the purchase of your new Eversman Ditcher. You have selected a top quality machine that is designed and built with pride to give you many years of efficient, reliable service.

Many people have worked on the design, production, and delivery of this ditcher. The information in this Manual is based on the knowledge, study and experience of these people through years of manufacturing specialized farming machinery. This Manual is designed to provide you with important information regarding safety, maintenance and machine operation so you can get the best possible performance from your Eversman Ditcher.

Even if you are an experienced operator of this or similar equipment, we ask you to read this Manual before using this ditcher. The way you operate, adjust and maintain this unit will have much to do with its successful performance. Any further questions you may have about this piece of Art's-Way equipment should be directed to your local Art's-Way dealer or to Art's-Way Manufacturing Co., Inc., Armstrong, Iowa 50514. (712) 864-3131.

### Specifications And Design Are Subject To Change Without Notice

Art's-Way Manufacturing Co., Inc. is continually making product improvements. In doing so, we reserve the right to make changes or add improvements to our products without obligation for equipment previously sold.

Because modifications to this ditcher may effect the performance, function and safety of its operation, no modifications are to be made without the written permission of Art's-Way Manufacturing Co., Inc. Any modifications made without the written permission of Art's-Way Mfg. Co. shall void the warranty of this product.

In the interest of continued safe operation of this ditcher, pay particular attention to the safety alert symbol throughout this manual.

### Art's-Way Manufacturing Co., Inc. Statement Of Product Liability

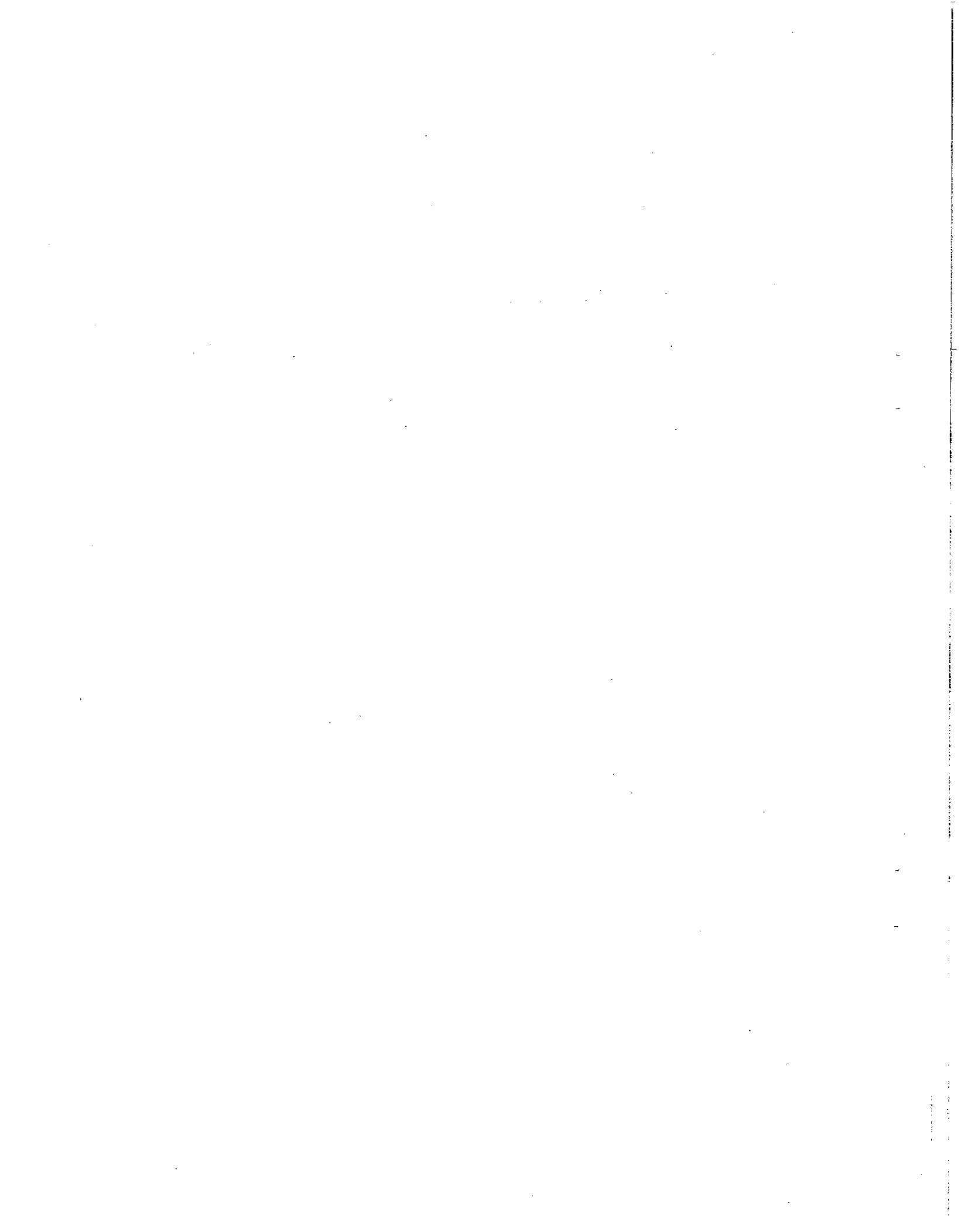
Art's-Way Manufacturing Co., Inc. recognizes its responsibility to provide its customers with a safe and efficient product. Art's-Way attempts to design and manufacture its products in accordance with accepted engineering practices in effect at date of design. This statement should not be interpreted to mean that our products will protect against the user's own carelessness or failure to follow common safety practices as set forth in this Manual, nor will Art's-Way be liable for any such act. In addition, Art's-Way assumes no liability for product altered or modified in any way by users or anyone other than an authorized dealer.

### Important Warranty Information

The warranty for the Eversman Ditcher appears on page 4 of this manual. In order to establish a proper warranty, the Warranty Registration and Dealer Pre-Delivery Checklist must be completed and returned to the factory. Failure to comply with this requirement will result in reduced warranty allowances.

### Limitations Of This Manual

This Manual contains operating instructions for your Eversman Ditcher only. It does not replace the Manual(s) for any machine that it may be attached to or used with.



# Parts & Service

As the new purchaser of your Eversman Ditcher, it is very important to consider the following factors:

- A. Original Quality
- B. Availability of Service Parts
- C. Availability of Adequate Service Facilities

Art's-Way Manufacturing Co., Inc. has an excellent dealership network ready to answer any questions you may have about your Eversman Ditcher. Parts for your machine may be ordered through our dealers. When placing a parts order, please have the **model** and **serial number** ready. This will allow the dealer to fill your order as quickly as possible.

For your convenience, we have provided this space for you to record your model and serial numbers and date of purchase, as well as your dealership name and address.

Owner's Name \_\_\_\_\_

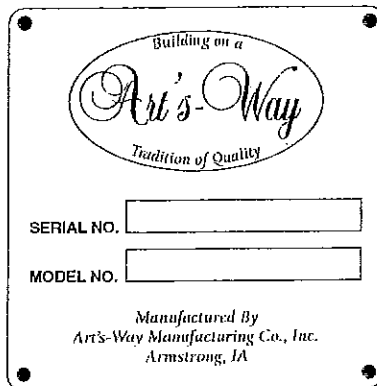
Owner's Address \_\_\_\_\_  
\_\_\_\_\_

Purchase Date \_\_\_\_\_

Dealership Name \_\_\_\_\_

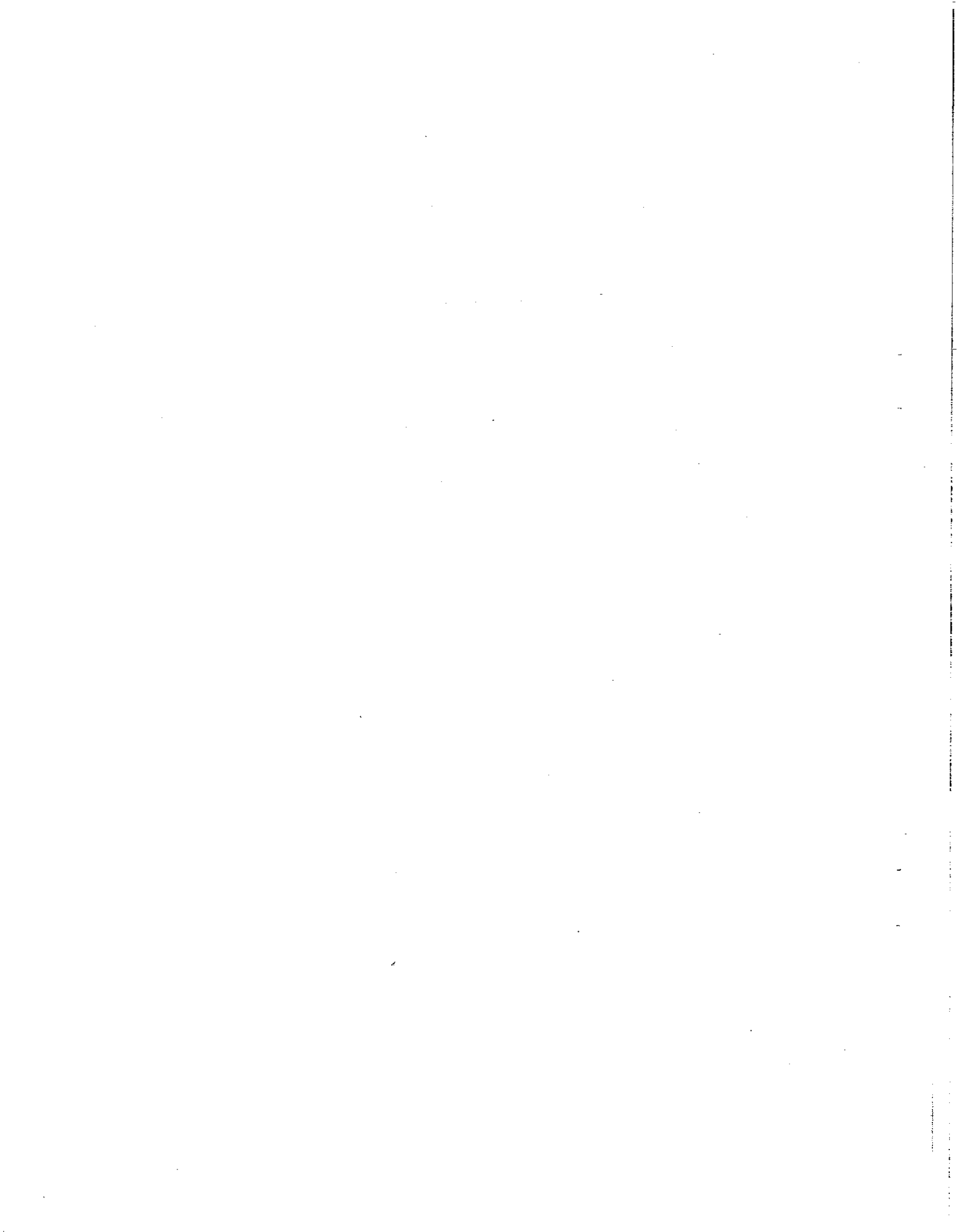
Dealership Address \_\_\_\_\_  
\_\_\_\_\_

Dealership Phone No. \_\_\_\_\_



serial plate

Enter The Serial Number & Model Number Of Your Ditcher In The Space Provided Above



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## Limited Warranty

Art's-Way Manufacturing Co., Inc. warrants the products it sells to be free from defects in material and workmanship for a period of one (1) year after the date of delivery to the first purchaser, subject to the following conditions:

- Art's-Way Manufacturing Co., Inc. obligation and liability under this warranty is to repair or replace (at the company's option) any parts which upon manufacture were defective in material or workmanship.
- All parts and repairs under this warranty shall be supplied at an authorized Art's-Way Manufacturing Co., Inc. dealer or at the factory, at the option of Art's-Way Manufacturing Co., Inc.
- Art's-Way Manufacturing Co., Inc. warranty does not extend to parts and elements not manufactured by Art's-Way Manufacturing Co., Inc. and which carry the warranty of the other manufacturer.
- Transportation or shipping to an authorized dealer for necessary repairs is at the expense of the purchaser.
- Art's-Way Manufacturing Co., Inc. makes no other warranty expressed or implied and makes no warranty of merchantability or fitness for any particular purpose beyond that expressly stated in this warranty. Art's-Way Manufacturing Co., Inc. liability is limited to the terms set forth in this warranty and does not include any liability for direct, indirect, incidental or consequential damages or expenses of delay and the Company's liability is limited to repair or replacement of defective parts as set forth herein.
- Any improper use, and maintenance, including operation after discovery of defective or worn parts, operation beyond the rated capacity, substitution of parts not approved by Art's-Way Manufacturing Co., Inc. or any alteration or repair by other than an authorized Art's-Way Manufacturing Co., Inc. dealer which affects the product materially and adversely, shall void this warranty.
- No dealer, employee or representative is authorized to change this warranty in any way or grant any other warranty unless such change is made in writing and signed by an officer of Art's-Way Manufacturing Co., Inc. at its home office.
- Some states do not allow limitations on how long an implied warranty lasts or exclusions of, or limitations on relief such as incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from state to state.



# Safety First

*"A careful operator is the best insurance against an accident."*

*National Safety Council*

Most accidents can be prevented if the operator:

- fully understands how the machine functions
- can anticipate situations which may produce problems
- can make necessary corrections before problems develop



*Figure 1. The Universal Safety Alert Symbol*

The American Society of Agricultural Engineers has adopted the *UNIVERSAL SAFETY ALERT SYMBOL* (Figure 1) as a way to identify areas of potential danger if the equipment is not operated correctly. *Please be alert whenever you see this symbol in the manual or on your ditcher.*

Art's-Way Manufacturing Co., Inc. strives to make our equipment as safe as it can possibly be. The Eversman Ditcher conforms to all applicable safety standards at the time of manufacturing. A safety conscious equipment operator makes an effective accident-prevention program complete.

Safety features and instructions for the Art's-Way Eversman Ditcher are detailed elsewhere in the Operator's Manual. It is the responsibility of the ditcher owner to ensure that all operators read and understand the Manual before they are allowed to operate the ditcher. [*Occupational Safety and Health Administration (OSHA) regulation 1928.57*].

## Notices of Danger, Warning, and Caution

Watch for these words on ditcher decals and in this Manual to alert you to important safety messages.

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### **DANGER**

Immediate and specific hazard which **will** result in severe personal injury or death if proper precautions are not taken.

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### **WARNING**

Specific hazard or unsafe practice **could** result in severe personal injury or death if proper precautions are not taken.

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### **CAUTION**

A reminder of good safety practices. Personal injury **could** result if proper procedures are not followed.

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# Safety Guidelines

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## CAUTION

Remember, a careful operator is the best insurance against an accident.

---

## CAUTION

READ and UNDERSTAND the Operator's Manual and all the safety decals before operating the ditcher. Review safety instructions with all operators annually.

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### Before Operating

- Do not wear loose fitting clothing as it may catch in moving parts.
- Make sure to install and/or secure all guards and shields, including the tractor power take-off master shield, before starting or operating the mixer.
- Clear the area of bystanders, especially children, when making repairs, adjustments or performing maintenance on the ditcher.
- Do not allow riders while transporting.
- Put all tractor and machine controls in "neutral" and disengage the PTO before starting. Follow the starting instructions according to your tractor Manual.
- Operate the ditcher only while seated on the tractor seat.
- Make sure the unit is adequately supported with safety blocks or safety stands when changing tires or working on it.

### During Operation

- Keep hands, feet, hair and clothing away from moving parts.
- Keep all shields and guards in place and in good repair.
- Keep all children and bystanders away from the ditcher while in operation.
- Do not allow riders while the ditcher is in operation.
- Before servicing, adjusting, repairing or unplugging the ditcher, stop the tractor

engine, place all the controls in neutral, set the parking brake, remove the ignition key.

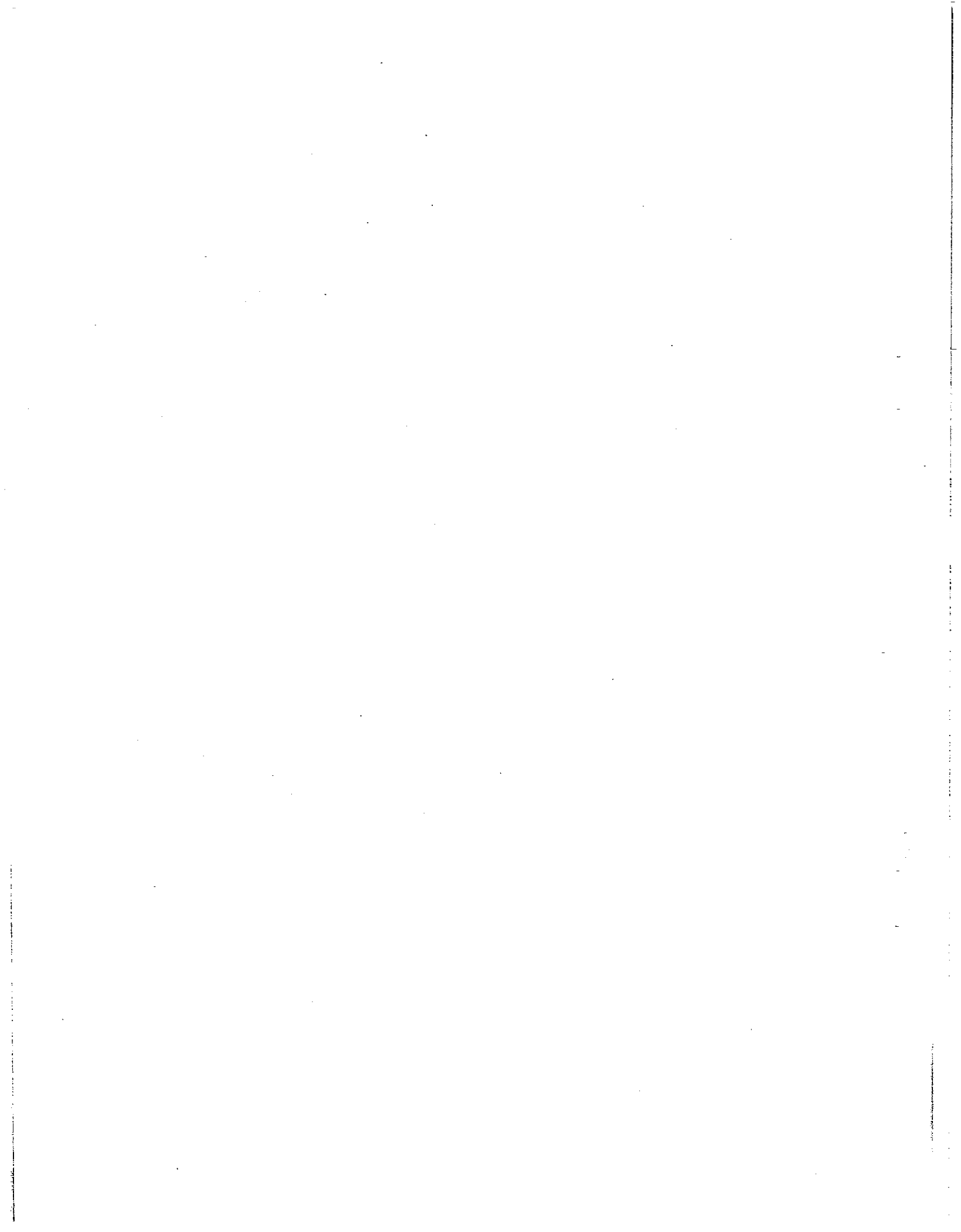
- Stay away from overhead power lines. Electrocutation can occur even without direct contact.
- Keep all hydraulic lines, fittings, and couplers tight and free of leaks. (See the Hydraulic Safety section, below).

### Maintenance Safety

- Follow all operating, maintenance and safety instructions found in this Manual.
- Before servicing, adjusting, repairing or unplugging the mixer, stop the tractor engine, place all the controls in neutral, set the parking brake, remove the ignition key and wait for all moving parts to stop.
- Use only the tools, jacks and hoists that are of sufficient capacity for the job.
- Use support blocks or safety stands when changing tires or working under the machine.
- Follow the good shop practices of keeping the service area clean and dry and use adequate light for the job at hand.

### Hydraulic Safety

- Before applying pressure from the hydraulic system, make sure all lines, fittings and couplers are tight and in good condition.
- Relieve pressure from the hydraulic circuit before servicing or disconnecting from the tractor.
- Make sure all shields/guards are in place and properly secured when maintenance work is complete.
- Replace any worn, cut, abraded, flattened or crimped hoses.
- Do Not make any temporary repairs to the hydraulic lines, fittings or hoses by using tape, clamps or cement. The hydraulic system operates under extremely high pressure and temporary repairs may fail suddenly and create a hazardous situation.
- Wear proper hand and eye protection when searching for a high-pressure hydraulic leak. Use a piece of wood or cardboard as a backstop instead of hands to identify and isolate a leak. If injured by a concentrated high-pressure stream of hydraulic fluid, seek medical attention immediately. Serious



infection or toxic reaction can develop if hydraulic fluid penetrates the surface of the skin.

- Before applying pressure to the system, make sure all components are tight and that the lines, hoses and couplings are not damaged.

### Transportation Safety

- Be sure to comply with all local regulations regarding transporting equipment on public roads and highways.
- Make sure the Slow Moving Vehicle (SMV) emblem and all lights and reflectors required by local highway and transportation authorities in place, clean and clearly visible to all oncoming traffic.
- Do Not allow riders while transporting.
- Make sure the ditcher is securely attached to the tractor.
- Do Not fail to latch the tractor brake pedals together.
- Do Not exceed 10 mph (16km/h) when transporting a D5 or D7 pull behind ditcher. Always reduce speed on rough roads and surfaces, or when going down inclines.
- Drive slowly when turning and always use turn signals on the tractor to indicate your turning intentions to the other traffic.
- The weight of the trailed machine should NEVER exceed the weight of the towing vehicle.
- Check clearances carefully wherever the machine is towed.

### Storage Safety

- Store the ditcher in an area away from human activity.
- Do Not permit children to play on or around the stored machine.

### Tire Safety

- Have a qualified tire dealer or repair service perform tire repairs.
- Do Not attempt to mount a tire unless you have the proper equipment and experience to do the job.

- Follow proper procedures when mounting a tire on a rim to prevent an explosion which could result in serious injury.
- Do Not use tires that are gouged, bulging, or are badly worn.

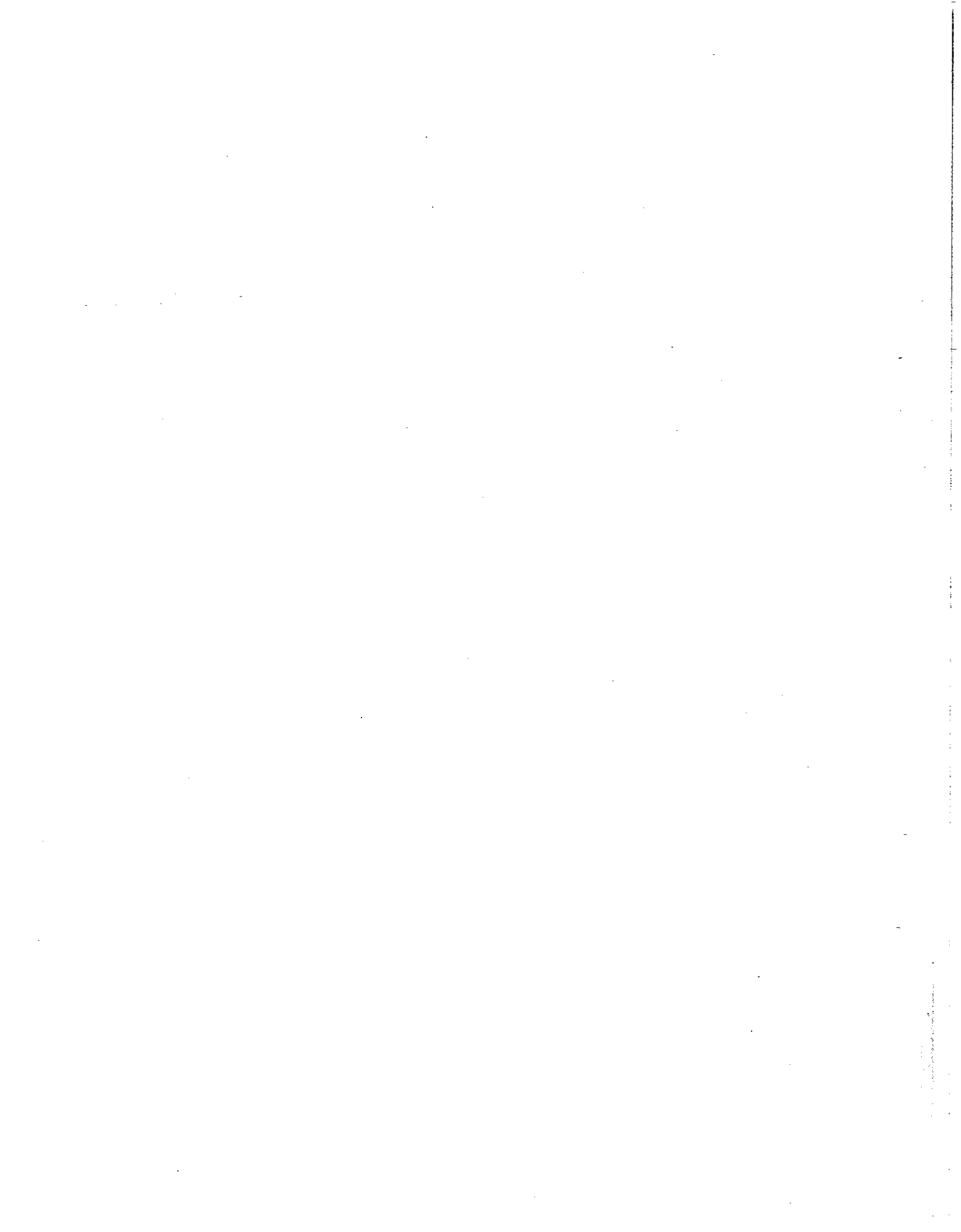
## CAUTION

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your dealer or a qualified tire repair service.

### Assembly Safety

- Use adequate manpower to perform assembly procedures safely.
- Do Not allow spectators in the working area.

*Remember:  
"The Best Operator is a Safe Operator"*





## Introduction: Eversman Ditchers

This manual has been prepared to acquaint you with the proper operation, adjustment, lubrication and service of the Eversman Ditcher. Take the time to be careful and better understand the efficient operation and care of your machine.

Whenever the terms "Left" and "Right" are used, it should be understood to mean standing behind the machine and facing the direction of the forward travel.

The Eversman Ditcher line is comprised of seven models — five rear-tractor mounted and two rubber-tire mounted. The details of these models are as follows:

### A - Model H5-1

This ditcher consists of a light-weight, inexpensive tripod (C-1) and a five foot wing assembly. It is for installation of Category 1, small horse power tractors, which are to be operated in first gear with the hydraulic system set on constant draft control. The Model H5-1 includes an adjustable top link assembly to regulate the pitch of the wings. It was primarily designed to construct small grain field laterals. The H5-1 should be used with 4-wheel tractors since insufficient vertical adjustment is available to clean the bottom of a ditch if a tricycle tractor is utilized.

### B - Model H5-3\*

This ditcher consists of a heavier tripod — the C-3S, and a five foot wing assembly. The C-3S tripod is designed to accommodate either Cat. 2 or Cat. 3 hitches, and is operated with a standard 8" stroke cylinder, or an optional heavy-duty adjustment screw (V932060).

### C - Model H7\*

This model uses the C-3S tripod, with a seven foot wing assembly.

### D - Model H5-ER\*

This ditcher has the five foot wing assembly installed on the C-3ER tripod. The C-3ER is designated as "extended range" since it permits a much greater adjustment of ditch depth and width, and transport clearance. This tripod is installed on Category 2 or 3 hitches, and is operated

with two 8" stroke cylinders, or one cylinder for the depth control, and a heavy-duty adjusting screw for the width, or angle adjustment.

### E - Model H7-ER\*

This model utilizes the C-3ER tripod with the seven foot wing assembly.

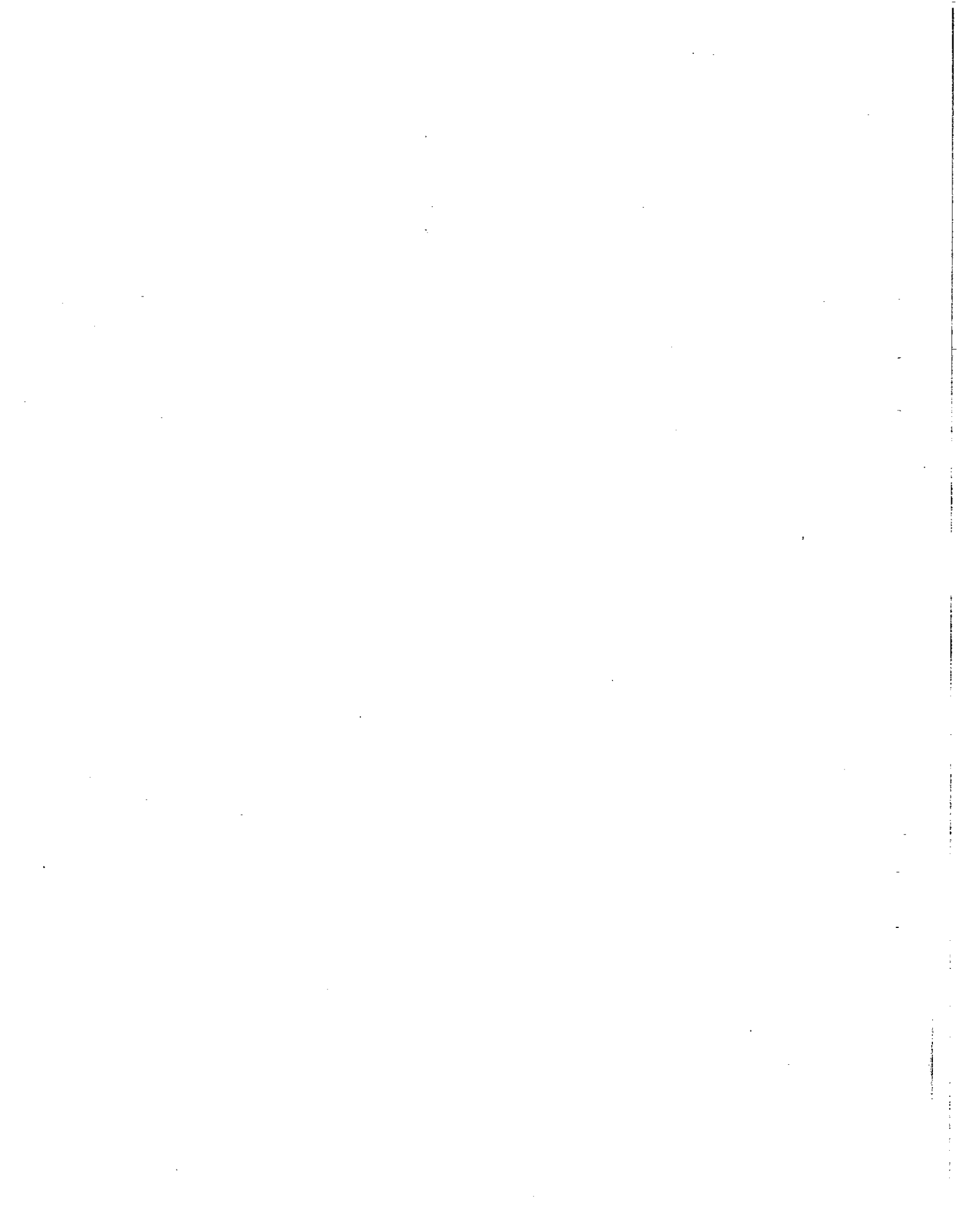
### F - Model D-5\*

This is a pull-behind ditcher, mounted on rubber tires, and consists of a five foot wing and the carrier assembly. It operates with either 2 - 8" stroke cylinders, or a mechanical ratchet jack can be substituted for the front cylinder which regulates the shape, or width, of the ditch.

### G - Model D-7\*

The Model D-7 is a pull-behind ditcher consisting of a seven foot wing and the pull-behind, rubber-mounted carrier assembly.

\*Not recommended for use with tractors larger than 100 HP.



## Field Operation & Adjustment

For both tractor-mounted and rubber-tire-mounted ditchers, the hitch must be free to float, so any sway blocks or chains should be removed.

Varying soil conditions, tractor sizes and individual grower specifications for constructing, or cleaning ditches make it almost impossible to establish any standard procedure for adjusting and operating Eversman ditchers. All models have sufficient adjustments and controls available to regulate the depth and shape (width) of channel desired. This then merely becomes a matter of the operator experimenting with the controls until he obtains the ditch he wants.

In general, the operator should first establish the shape of the ditch by using the control to pitch the wing to the desired angle. Then he can develop the depth of the ditch as soil conditions and the power available permit. Several passes are normally required, which will result in a firm, well-packed ditch bank, less subject to washing away.

A duckbill nose share (V906200) is shipped as standard on all ditcher models since this will penetrate most soils and produce a flat-bottom ditch. For extremely difficult soils, a narrow, or pointed, nose share (V902800) is available at the same price.

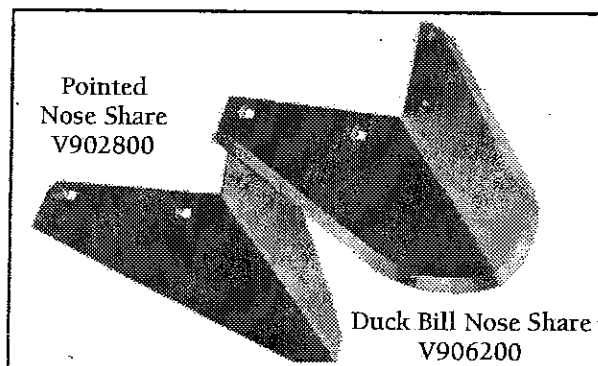


Figure 4. Nose Shares

The H5-1 is the only model which is shipped with a mechanical screw control, which is used to change the shape (width) of the ditch.

Three sets of holes at the top and bottom of the D-1 tripod, combined with the adjustment available with the screw control, will permit a

wide variety of channel depths and widths. The H5-1 should be used only with Cat. 1, 4-wheel tractors, operated in first gear, and with the hydraulic system set on constant draft control.

The H5-3 and H-7 models can be operated with any standard, ASAE, 8" stroke cylinder. If a mechanical control is used, the heavy-duty screw control, V932060, is recommended since the strength of the ratchet jack is marginal. Three holes are available at the top of the C-3S hitch to connect the regular tractor top link at whatever angle is desired, and a choice of two holes for the lower draft arms connection permits further depth adjustment, (Figure B, page 14). Step pins at the top and bottom are designed to accommodate either Cat. 2 or 3 hitches.

Model H5-ER and H7-ER are designed for installation on either Cat. 2 or 3 hitches, and are shipped without controls. The tripod is designated as "Extended Range" since it permits a much greater adjustment of channel shape and transport clearance than the C-3S. Note photos on pages 24 and 25 which show the range of adjustments.

The fast, easy method to operate the ER model is with two 8" stroke hydraulic cylinders and two tractor control valves. If only one tractor control valve is available, the top cylinder can be replaced with the heavy-duty screw (V932060). This cylinder, or screw, regulates the shape, or angle, of the ditch. It is not practical to utilize a mechanical control for the bottom cylinder, which controls the channel depth, since this requires frequent changes during field operations.

**IMPORTANT** - The Eversman cylinders (Kit No. V932085) must be installed exactly as shown in the bottom photo on page 19. Note that the elbow on the top end of the lower cylinder is installed at 90° to permit sufficient clearance with the top cylinder barrel. If connected at any other angle, these elbows will be knocked off. If other makes of cylinders are used on the ER tripod, a careful check of interference should be made by operating slowly through the full strokes of both cylinders.

Page 10 shows a range of channel sizes and shapes possible to construct with the "ER" ditchers.



## Field Operation & Adjustment, Cont.

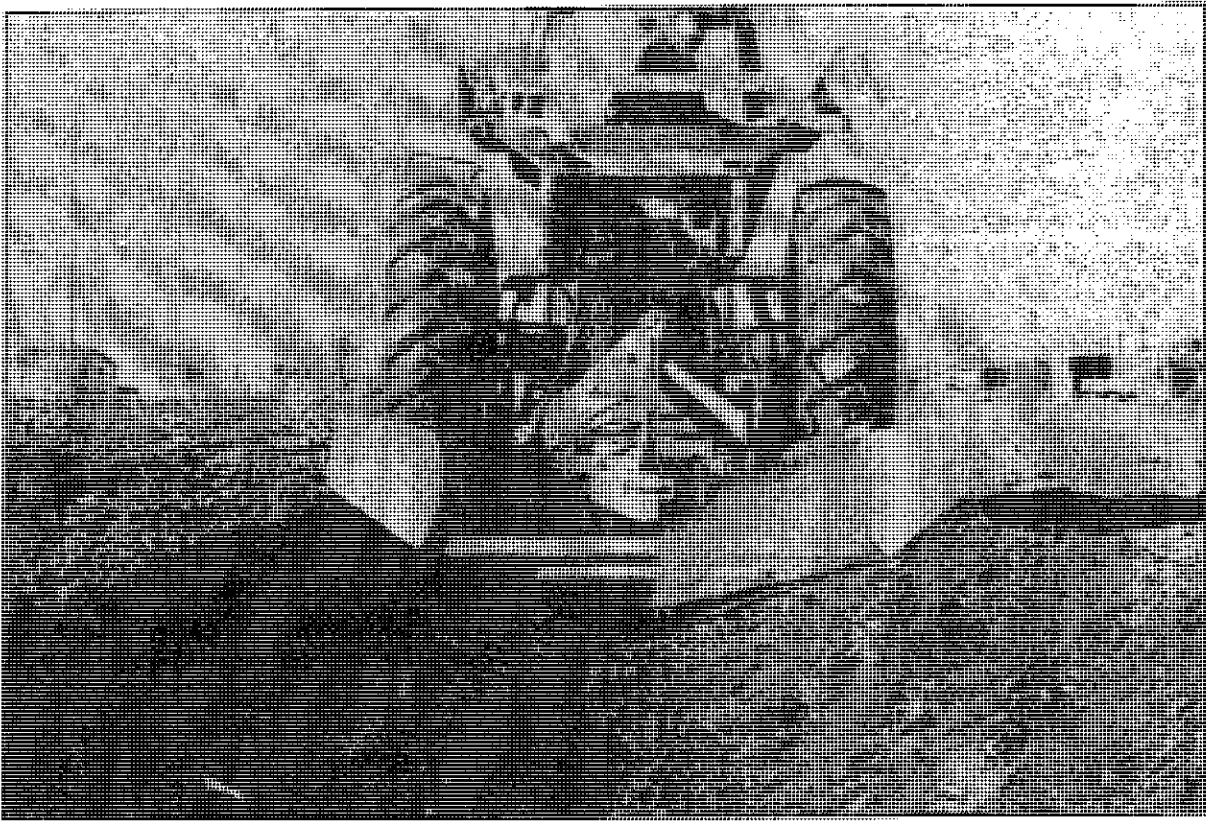


Figure 2.

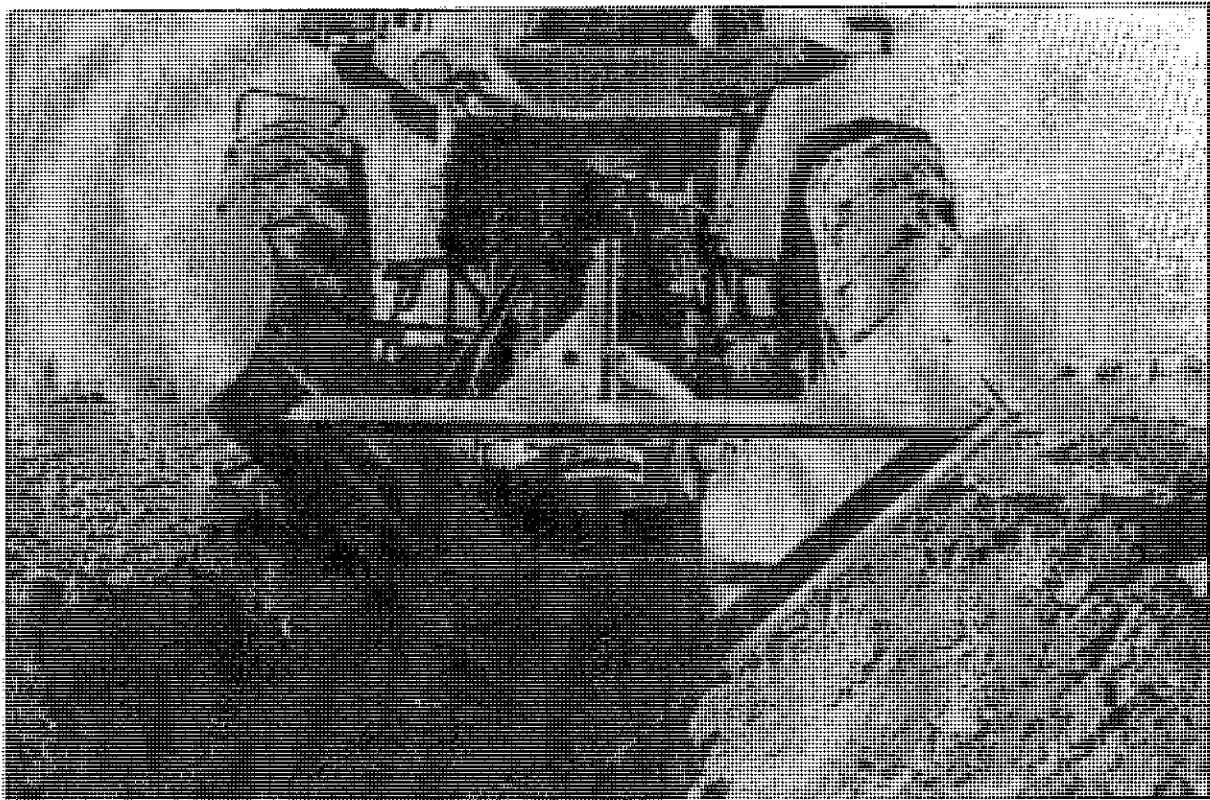
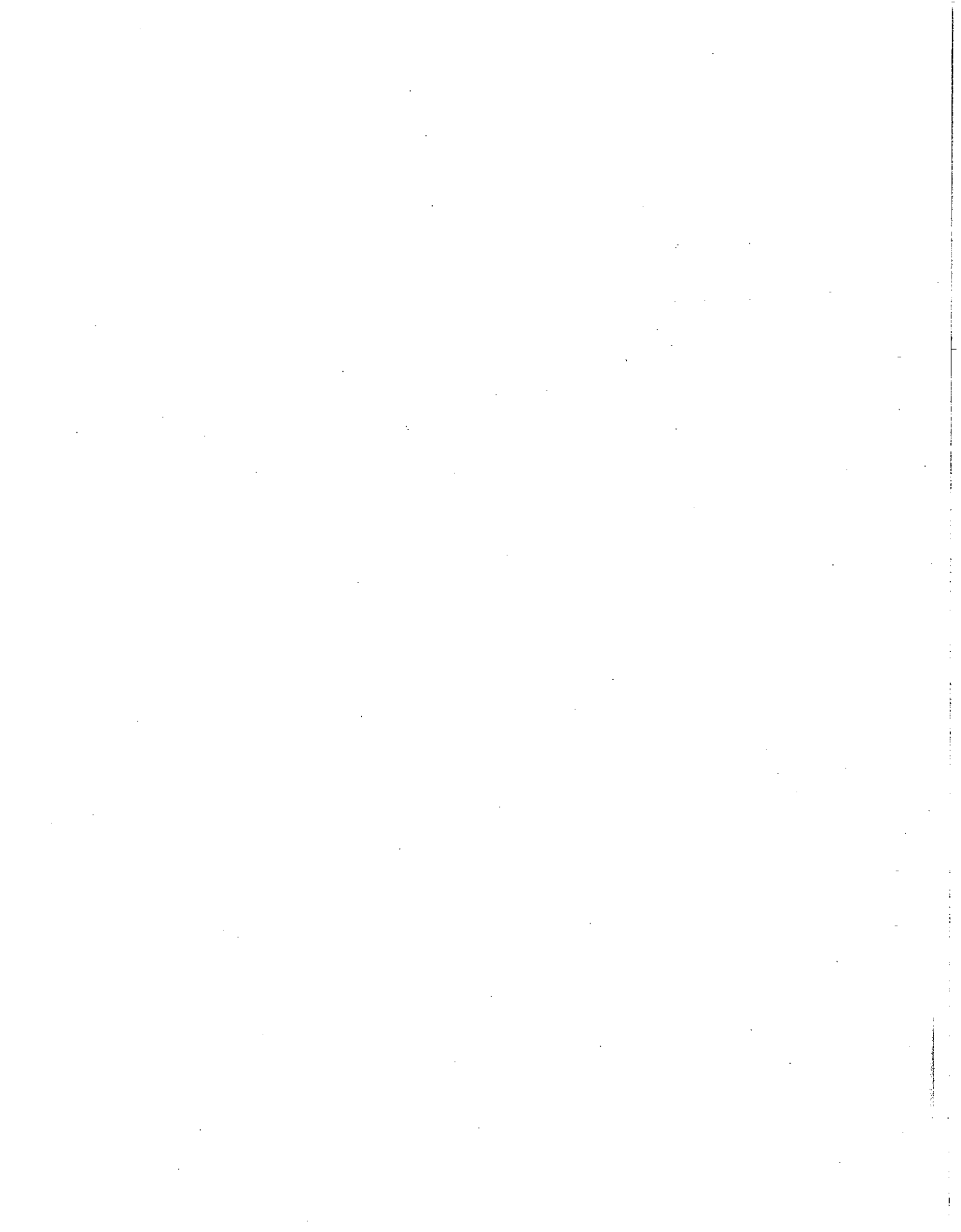


Figure 3.



## Field Operation & Adjustment, Cont.

The Model D-5 and D-7 are shipped without controls and with 15" wheels, less tires. Used automotive 15" tires that are in good condition may be installed. These ditchers can be operated with two standard, 8" stroke, ASAE, cylinders. Two tractor control valves are required.

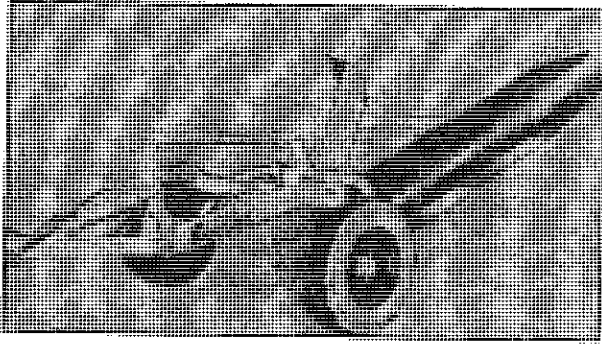


Figure 5.

It is recommended that a cylinder always be used for the rear control since this regulates the depth of the ditch which is a frequent adjustment when either constructing new ditches or cleaning old ones. Normally, the front control is set and not changed as often. This control regulates the shape, and width of the channel by changing the angle of the wing, and the adjustment can be done mechanically with a ratchet jack (V172600), or the heavy-duty adjusting screw (V932060). In this case only one tractor control valve is required.

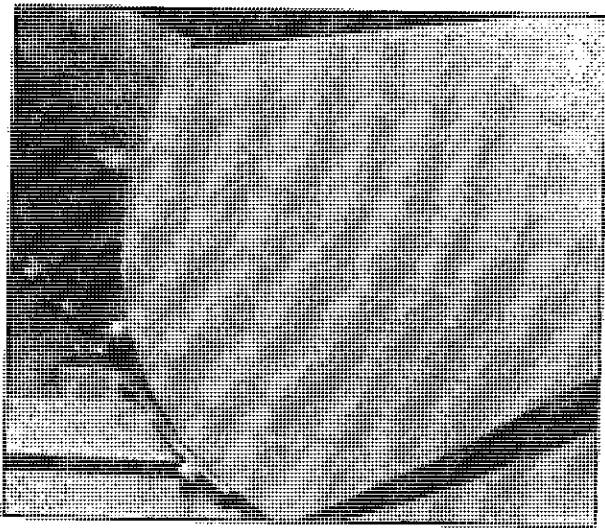


Figure 6. Wing extension tilted up to widen bank for irrigation ditch. RH wing (V151020) on right side of ditcher.

By means of an overhead lift pipe, and a two-section main beam structure, the D-5 and D-7 chassis always remains substantially parallel to the ground, and when pulled out of a ditch, the nose share will not disturb the ditch bank.

To assembly the D-5 or D-7, first attach the axle to the rear of the main beam with the two axle clips, and the tongue and lever arm to the front with the clevis pin. Then, after installing the lift pipe, the front and rear controls can be attached, the tires mounted, and the chassis assembly lifted to permit mounting the wing assembly.

The optional wing extensions (Kit No. V151160) can be added to either the 5' or 7' wing. These extensions will widen the channel by pushing soil over the bank when set as shown (in Figure 6), or when reversed, (as in Figure 7), will spread the soil out to increase the channel's effectiveness as a drainage ditch.

NOTE: All of the old Eversman ditcher wings which were shipped with the V903000 wing shoe casting can be installed on any of the current tripods, or on the Carrier Assembly. However, if the owner needs to install a new 5' or 7' wing assembly on an old tripod, or the older style D-5 or D-6 carrier, then a V901810 adapter kit must be ordered. (See drawing on page 21).

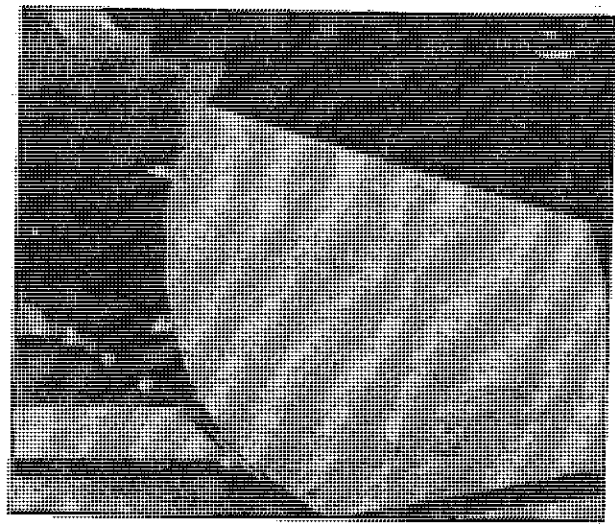
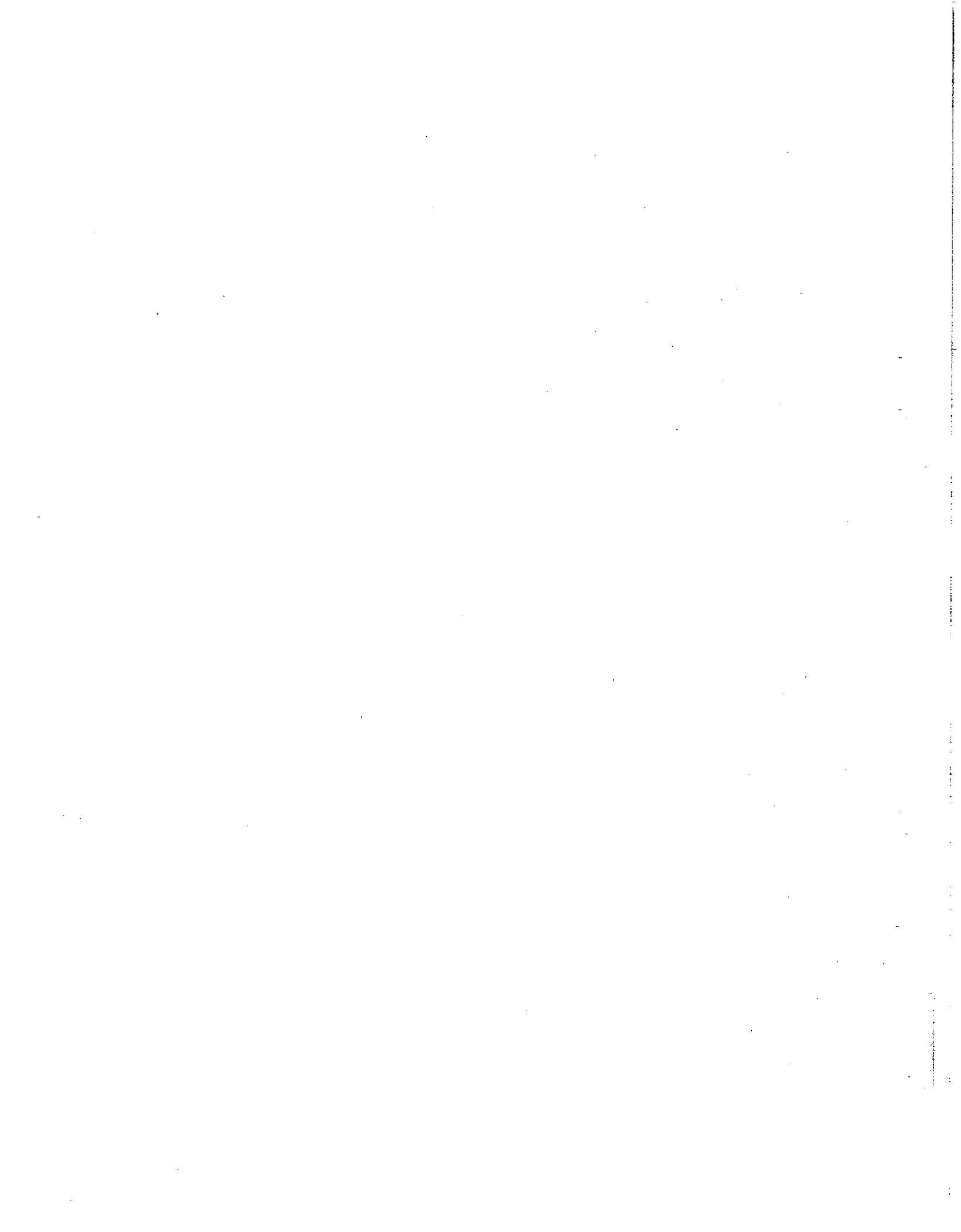
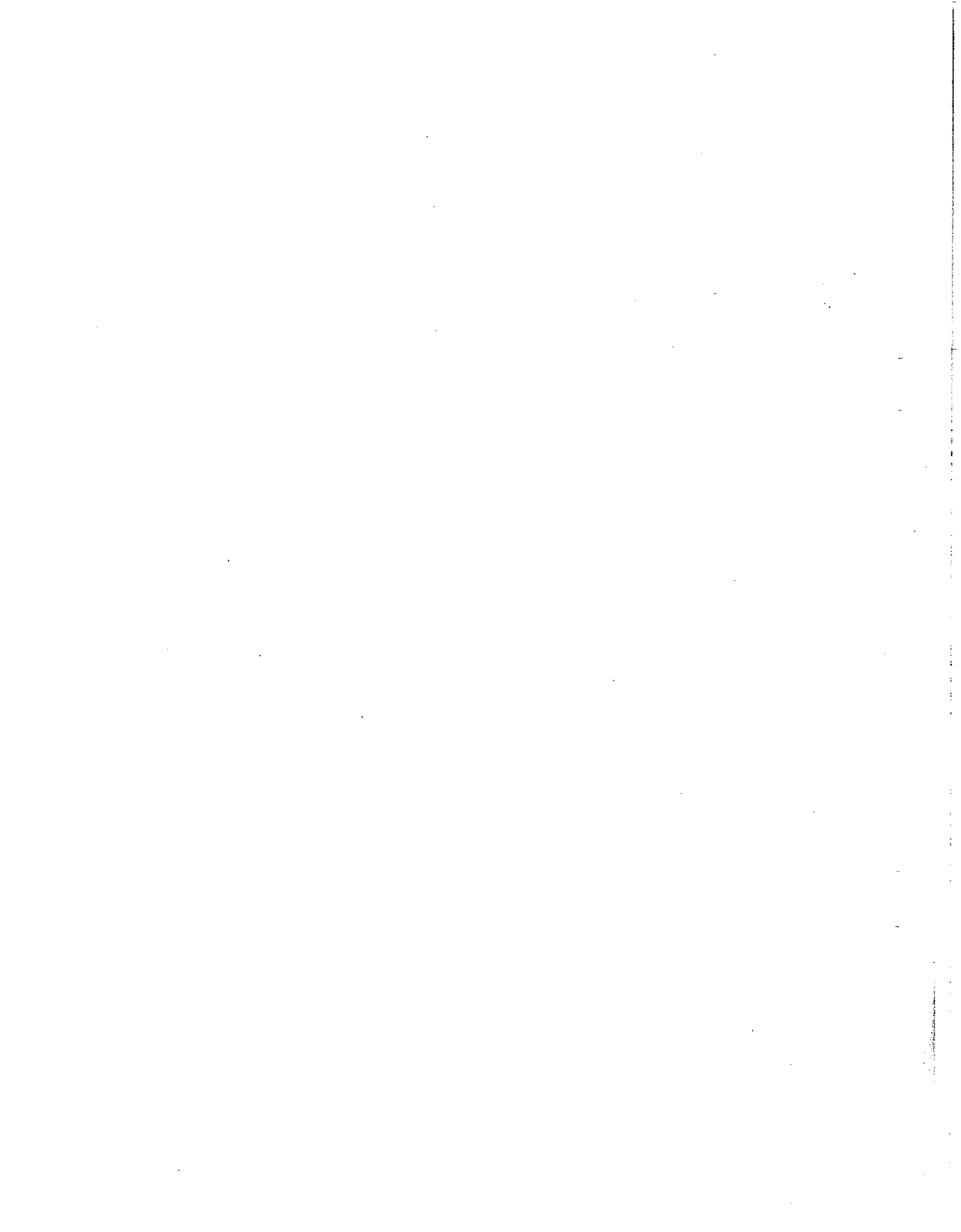


Figure 7. Wing extension flattened to erase bank for drainage ditch. LH wing (V151010) on right side of ditcher.









# C-1 Tripod Assembly — V900014

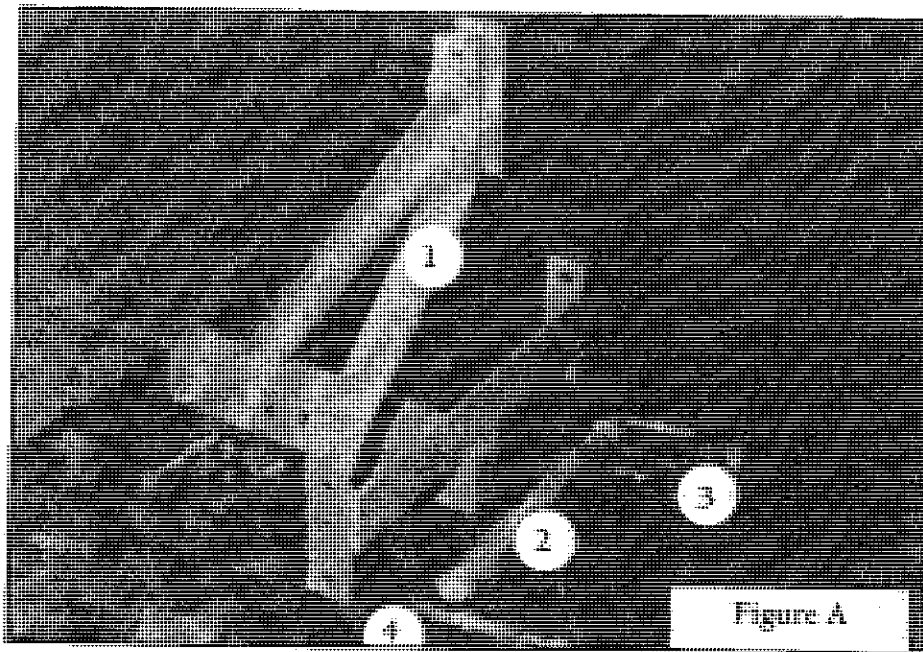
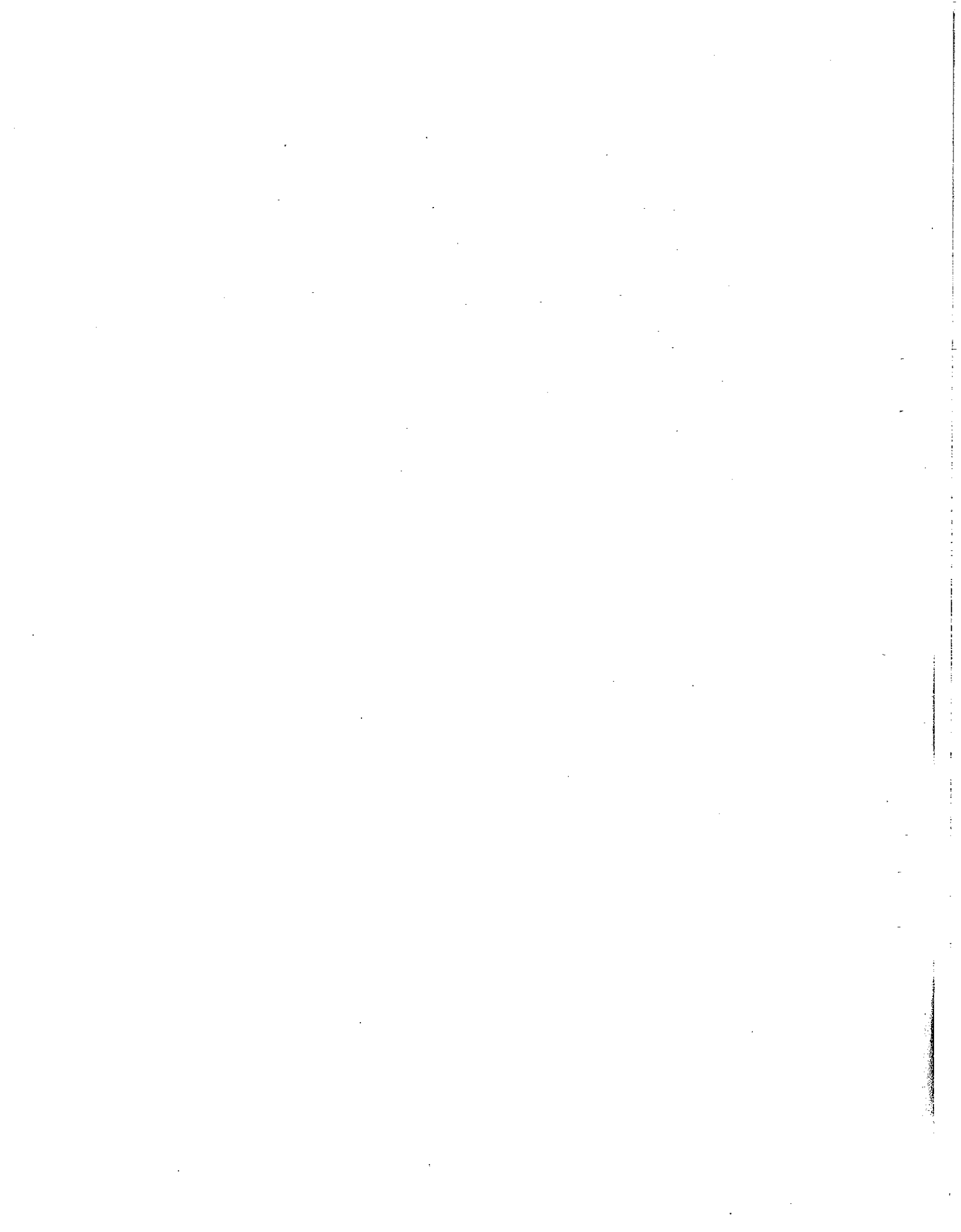
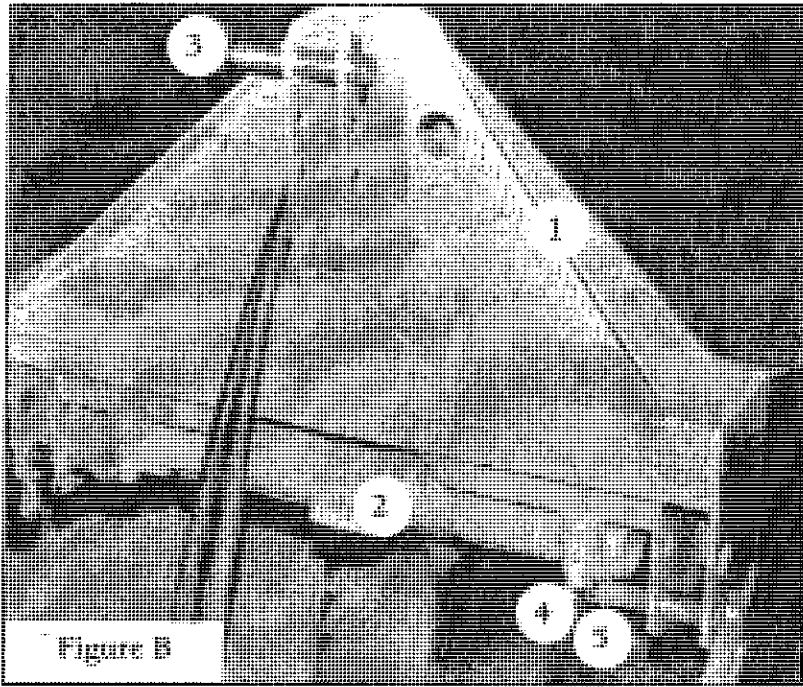


Figure A

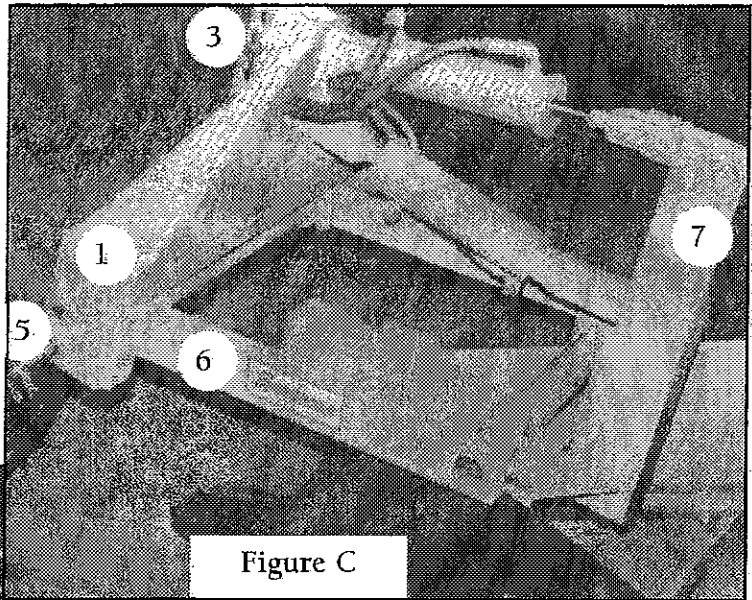
Ref. No.	Part No.	Description	Model No.	No. Req.
1	V920200	Tripod Weldment	H5-1	1
2	V920300	Top Link Assembly	"	1
-	V920400	RH Screw Weldment	"	1
-	V920500	LH Screw Weldment	"	1
-	V920600	Pipe Weldment	"	1
3	V920239	3/4 x 4" Upper Pin	"	1
-	V035830	Hairpin #6	"	1
4	V003460	Lower Pin - Draw Cat. 1	"	2
-	E552020	7/8"-14 NF PL Hex Nut	"	2
-	V922200	Cat. 2 Bushing (Optional)	"	2



# C-3S & C-3ER Tripod Assemblies



C-3S Tripod Assembly  
V932005



C-3ER Tripod Assembly  
V932010

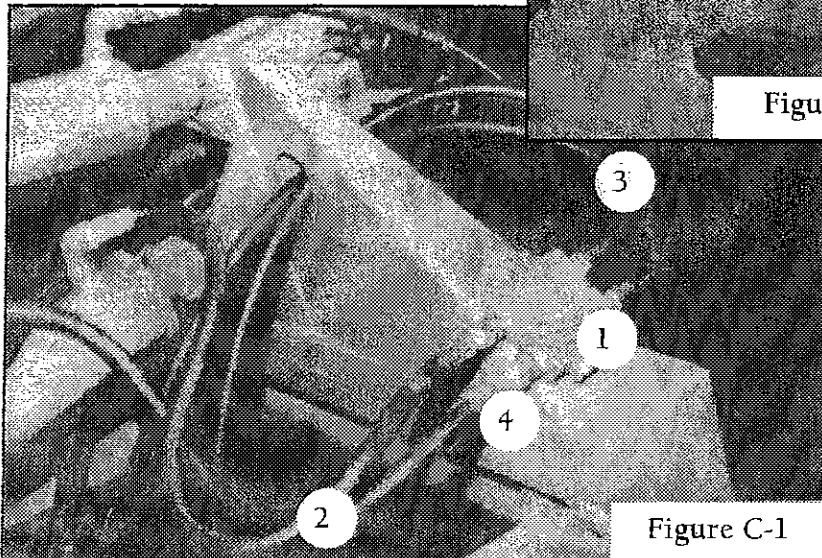
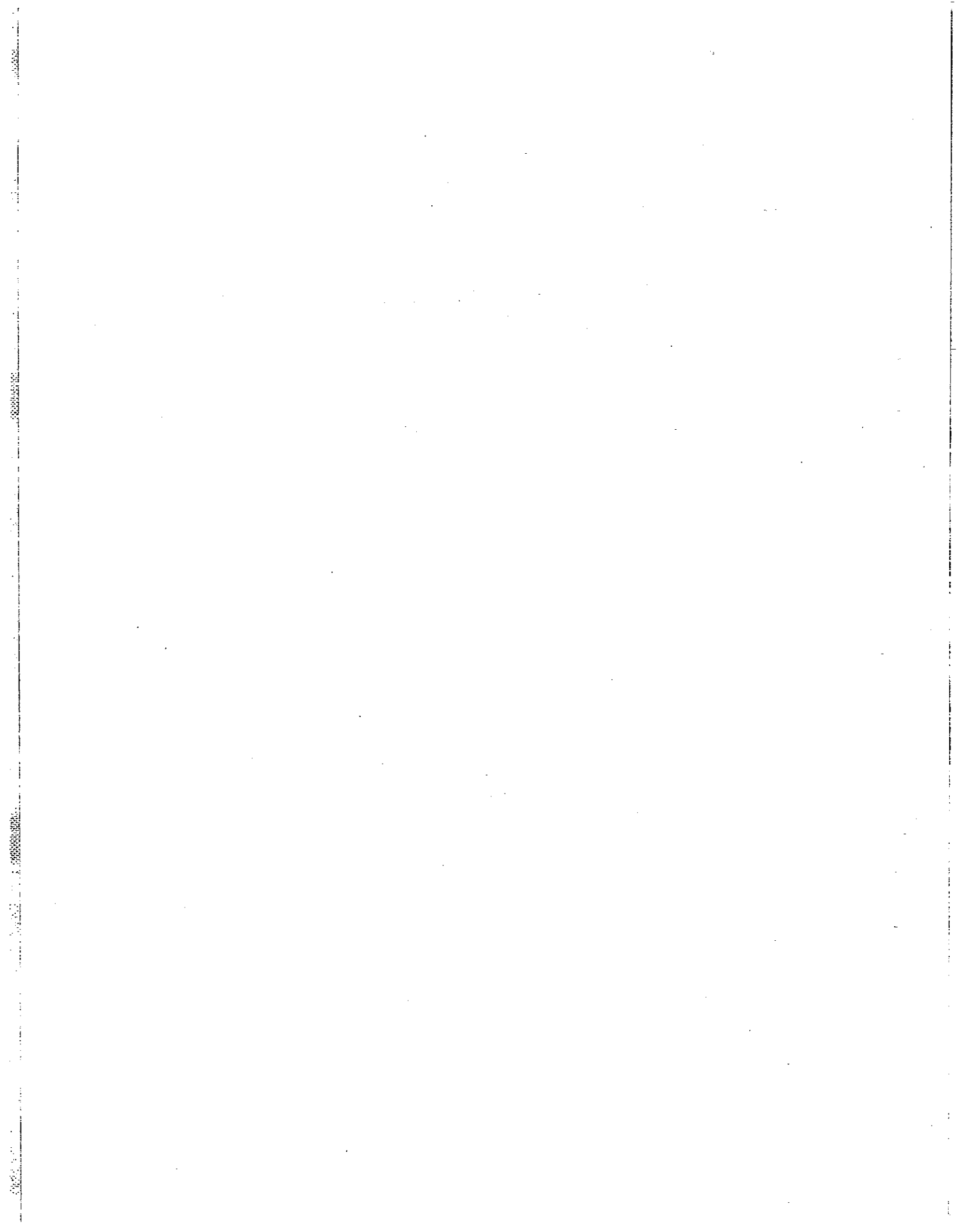
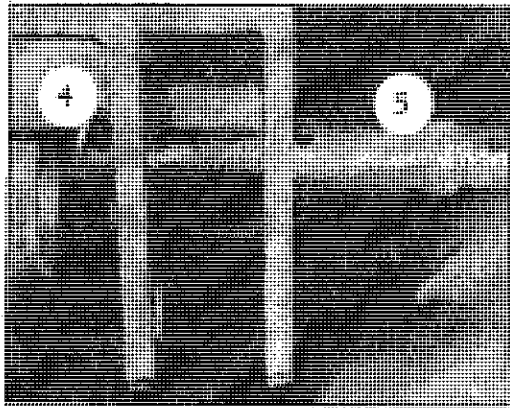


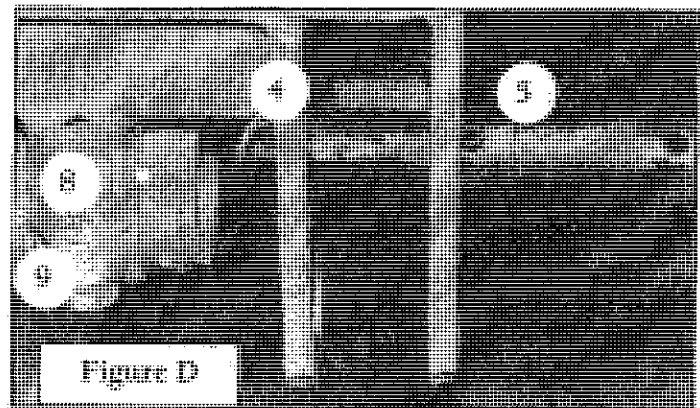
Figure C-1



# Category 2 & Category 3 Pin Assembly



Category 2 Pin Assembly



Category 3 Pin Assembly

Fig. No.	Ref. No.	Part No.	Description	Tripod Assembly	No. Req.
B, C	1	V932001	Hitch Weldment	C-3S, C-3ER	1
B	2	V932023	Beam Weldment	C-3S	1
B, C	3	V290425	Upper Hitch Pin Assembly	C-3S, C-3ER	1
-	-	V290424	Cat. 2 & 3 Hitch Pin	C-3S, C-3ER	1
-	-	J34H356	3/8 x 2-1/4 Roll Pin	C-3S, C-3ER	1
B, C, D	4	V290451	Hairpin Assembly	C-3S, C-3ER	3
-	-	035830	Hairpin #6	C-3S, C-3ER	3
-	-	V064393	1/4 x 2-1/4 Roll Pin	C-3S, C-3ER	3
B, C, D	5	V290450	Lower Hitch Pin Assembly	C-3S, C-3ER	2
-	-	V290449	Lower Hitch Pin Cat. II-III	C-3S, C-3ER	2
-	-	J34H356	3/8 x 2-1/4 Roll Pin	C-3S, C-3ER	2
C	6	V932042	Link Weldment	C-3ER	1
C	7	V932045	Frame Weldment	C-3ER	1
C-1	-	V932095	Cushion Valve Kit*	C-3ER	1
C-1	1	V609550	Cushion Valve	C-3ER	1
C-1	2	V022270	34" Hose	C-3ER	2
C-1	3	V041007	57" Hose	C-3ER	2
C-1	4	V710402	1/2" M-F Swivel Fitting	C-3ER	2
D	8	V450587	Bearing Assembly (Includes Cap)	C-3S, C-3ER	2
D	9	V450588	Bearing Cap (Casting No. 52-6A)	C-3S, C-3ER	2
-	-	025100	5/8 x 1-3/4 Hex Bolt	C-3S, C-3ER	4
-	-	020440	5/8 Lock Washer	C-3S, C-3ER	4

\*The Cushion Valve Kit was included as standard on all ER Ditchers effective #34427, February 20, 1984. The kit can be installed on earlier ER Ditchers.





# Carrier Assembly - V150011

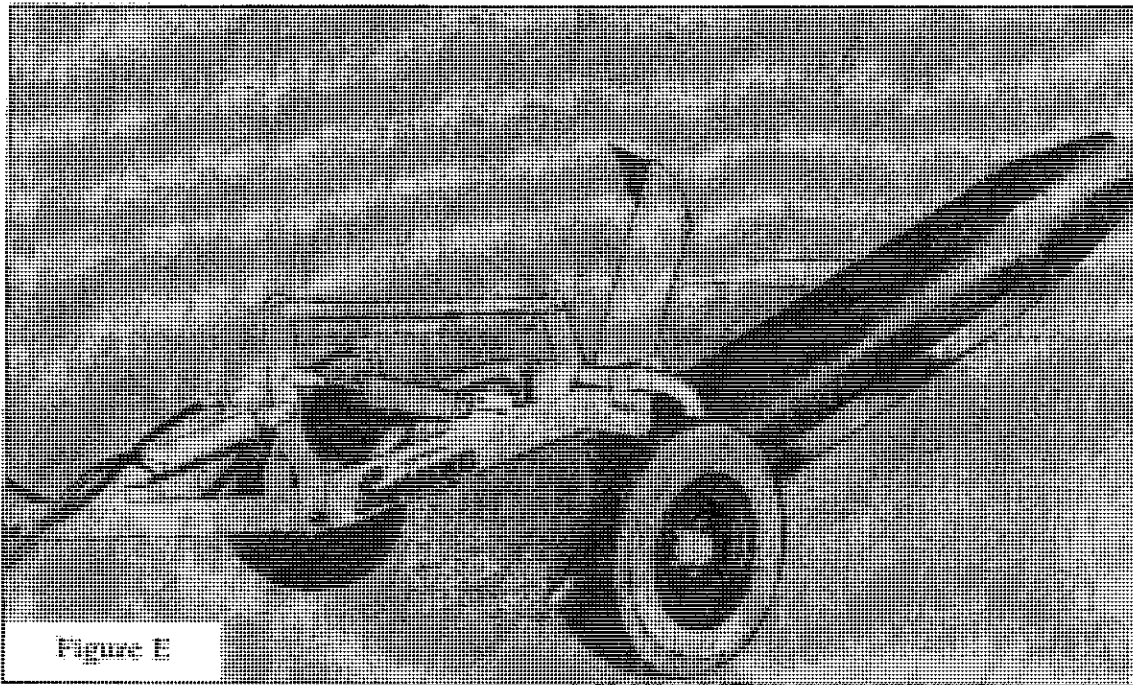
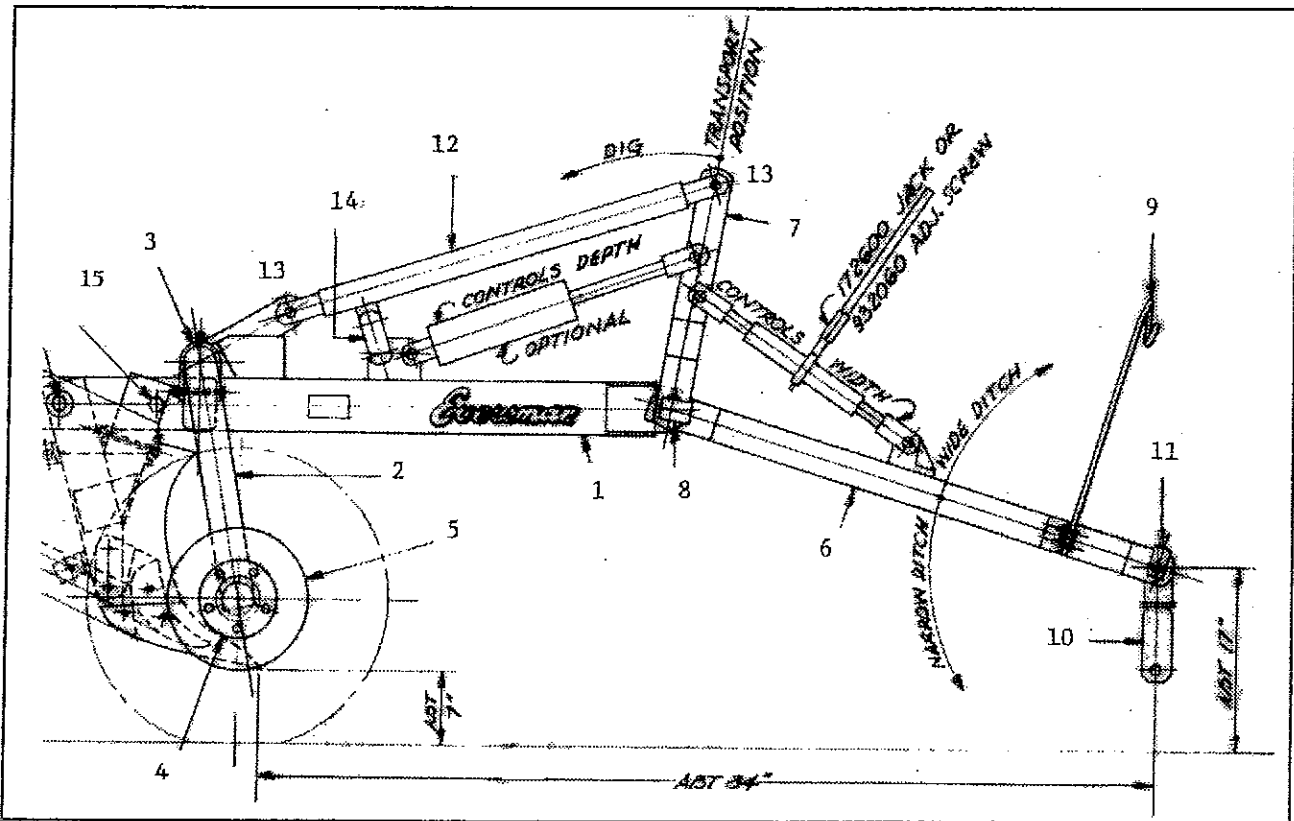
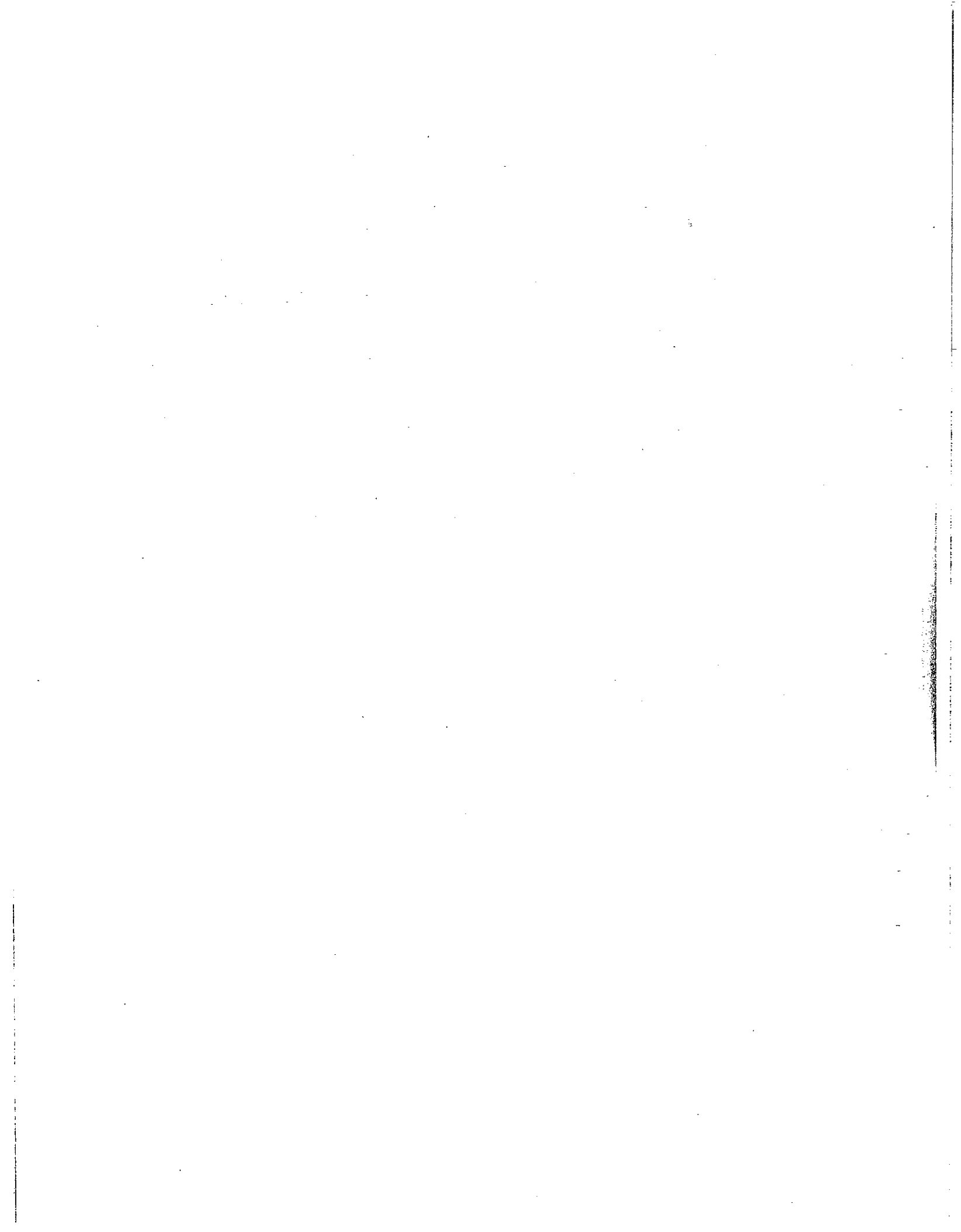


Figure E

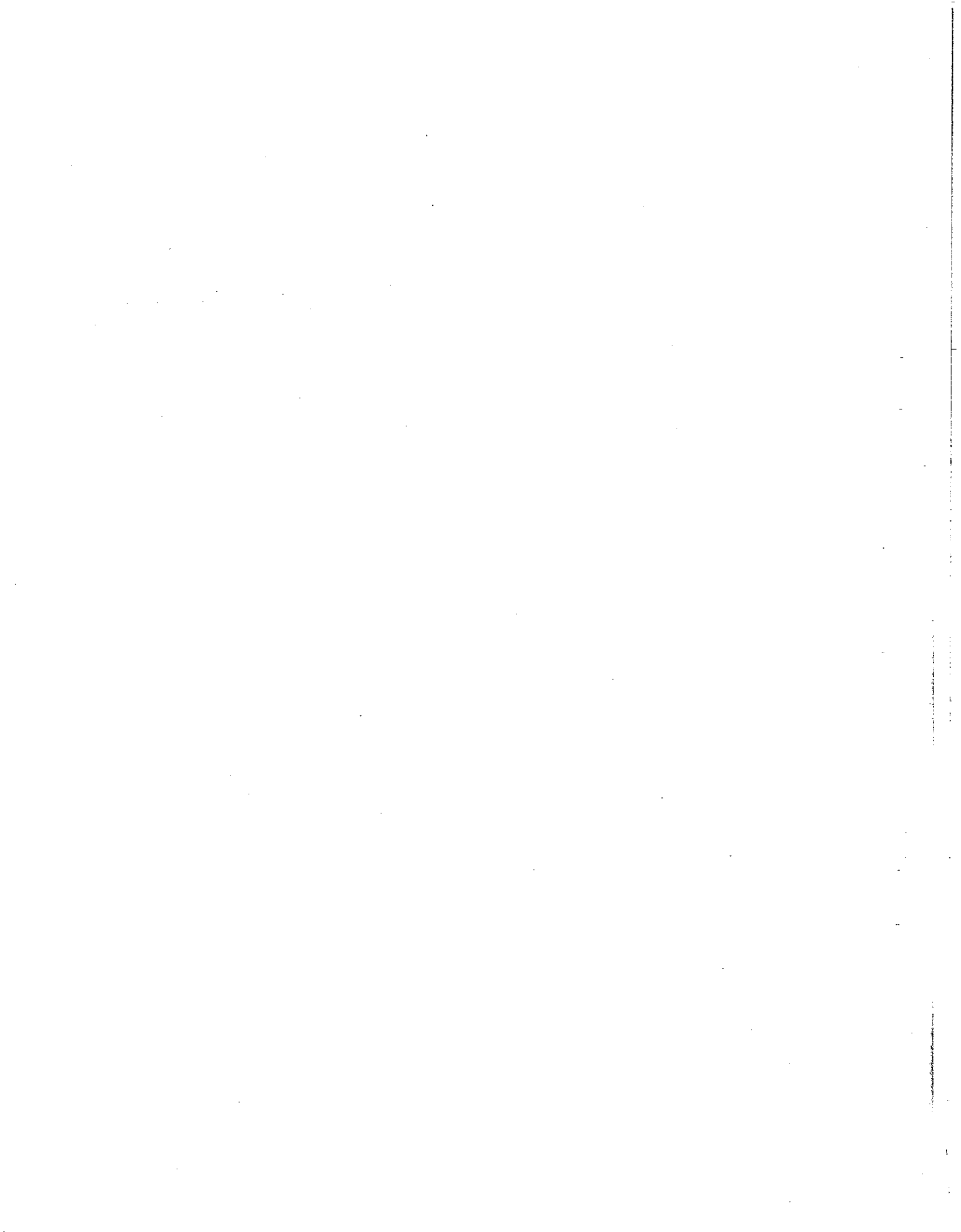




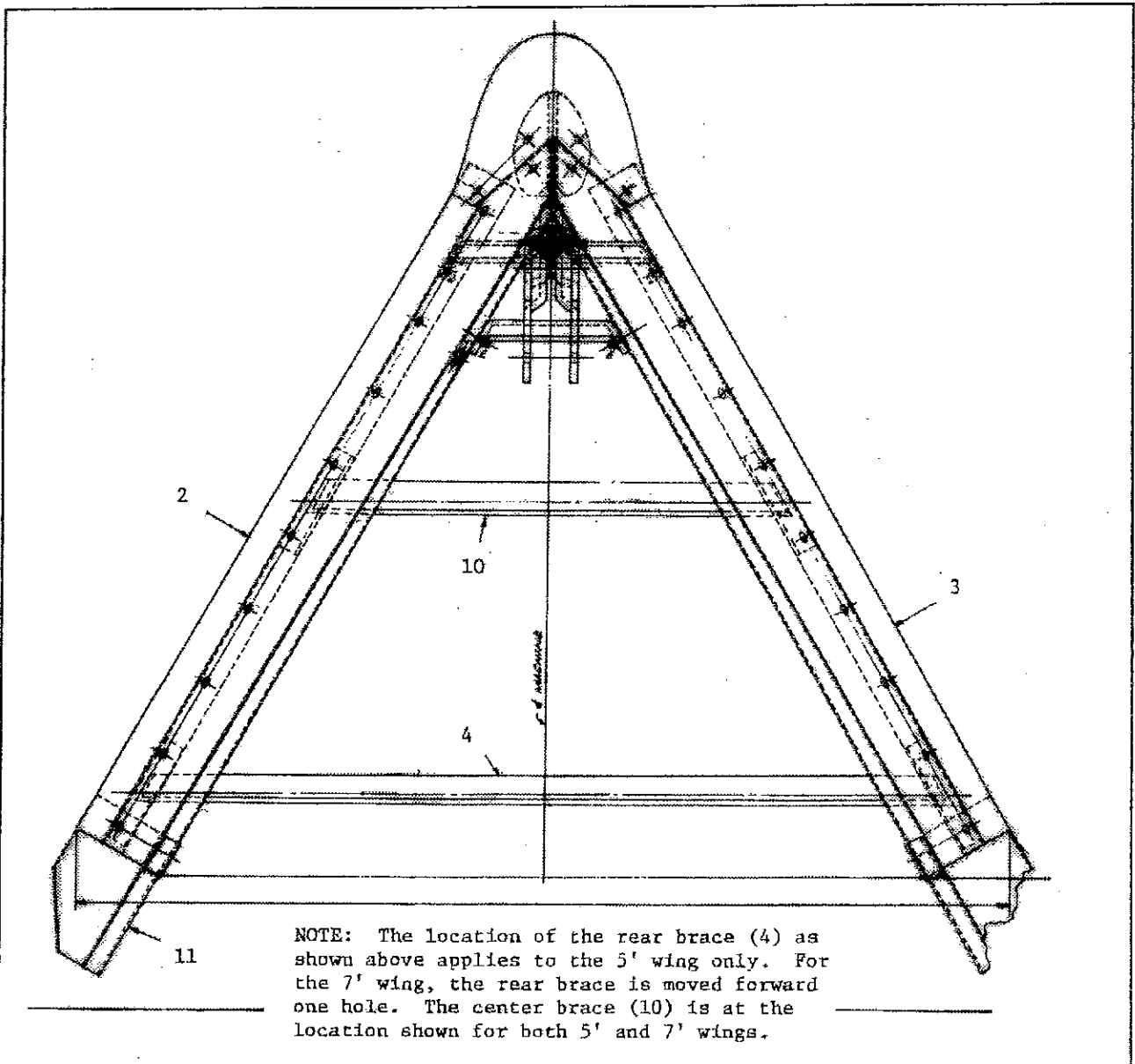
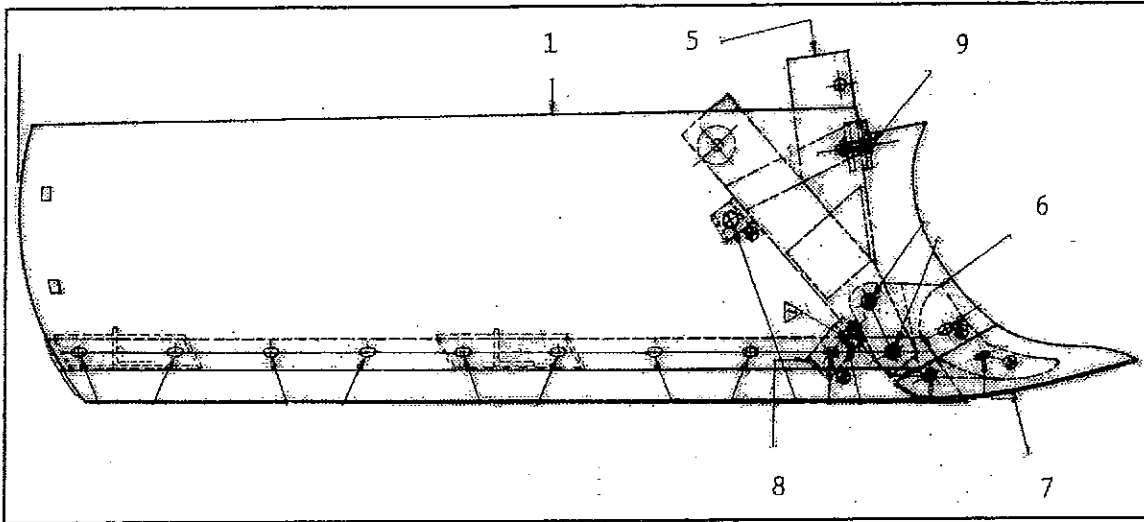
# Carrier Assembly - V150011

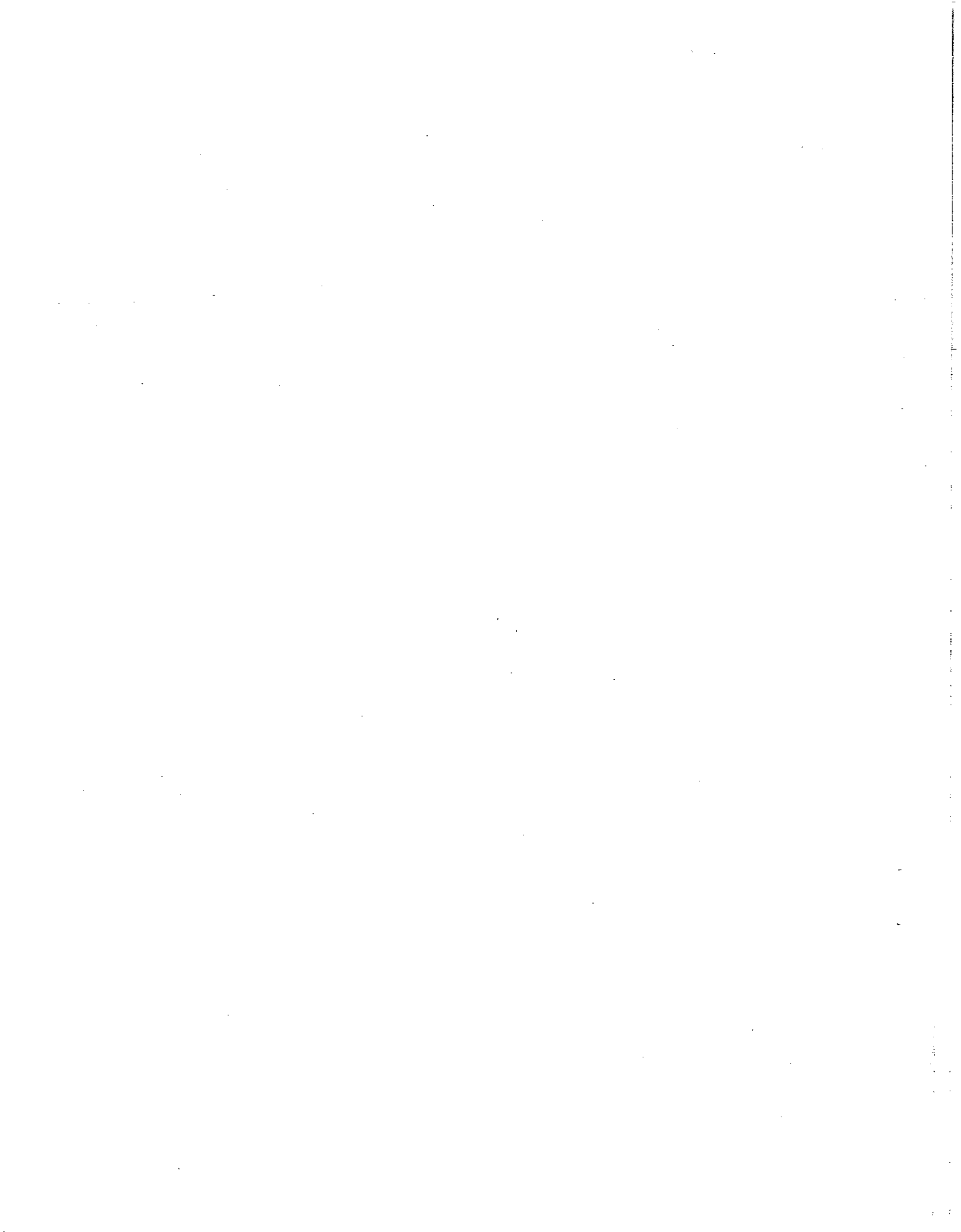
Fig. No.	Ref. No.	Part No.	Description	Tripod Assembly	No. Req.
E	1	V150020	Main Frame	D-5 & D-7	1
E	2	V150310	Axle	D-5 & D-7	1
E	3	V150580	Axle Clamp	D-5 & D-7	2
E	-	030420	1/2"-13 x 4-1/2 Hex Bolt	D-5 & D-7	4
E	-	005200	1/2" Flat Washer	D-5 & D-7	4
E	-	005370	1/2" Lock Washer	D-5 & D-7	4
E	-	005360	1/2"-13 Hex Nut	D-5 & D-7	4
E	4	V023470	Hub Assembly	D-5 & D-7	2
E	-	V031090	Hub Casting - With Sleeve	D-5 & D-7	1
E	-	129830	7/8"-14 NF Slotted Hex Nut	D-5 & D-7	1
E	-	V030620	7/8" Washer	D-5 & D-7	1
E	-	023170	Grease Fitting	D-5 & D-7	1
E	-	V007000	1/2"-20 x 1" NF Wheel Bolt	D-5 & D-7	5
E	-	V023520	Hub Repair Kit	D-5 & D-7	1
E	-	V023490	Triple Lip Seal	D-5 & D-7	1
E	-	V023510	Wear Sleeve	D-5 & D-7	1
E	-	012630	Outer Bearing	D-5 & D-7	1
E	-	V523500	Outer Cup	D-5 & D-7	1
E	-	035420	Hub Cap	D-5 & D-7	1
E	-	V501329	Inner Bearing	D-5 & D-7	1
E	-	V501330	Inner Cup	D-5 & D-7	1
E	5	V590400	15" Wheel	D-5 & D-7	2
E	6	V150351	Tongue Weldment	D-5 & D-7	1
E	7	V151140	Lever Arm	D-5 & D-7	1
E	8	V150500	Clevis Pin	D-5 & D-7	1
E	-	R66633	5/16 x 2-1/2 Cotter	D-5 & D-7	1
E	9	V012130	Hose Support	D-5 & D-7	1
E	10	V040629	Clevis*	D-5 & D-7	1
E	11	V040642	Hitch Clevis Pin	D-5 & D-7	1
E	-	E580046	1/4 x 2 Cotter	D-5 & D-7	1
E	-	V040619	Spacer	D-5 & D-7	1
E	12	V151120	Lift Pipe	D-5 & D-7	2
E	13	V701026	1 x 3 Clevis Pin	D-5 & D-7	2
E	-	114370	1/4 x 2 Cotter	D-5 & D-7	2
E	14	V150660	Lock-Up bar	D-5 & D-7	1
E	-	-----	Hyd. Kit (See Optional List)	D-5 & D-7	1 or 2
E	-	-----	Ratchet Jack (See Optional List)	D-5 & D-7	1
E	-	-----	Heavy-Duty Screw (See Optional List)	D-5 & D-7	1
E	15	E672088	3/4"-10 x 6" Hex Bolt	D-5 & D-7	2
E	-	036750	3/4"-10 Hex Nut	D-5 & D-7	1
E	-	036800	3/4" Lock Washer	D-5 & D-7	2

\*For crawler tractors use V040629 clevis casting with drawbar adapter kit V045117.



# 5' & 7' Wing Assembly - V900605 & V900607

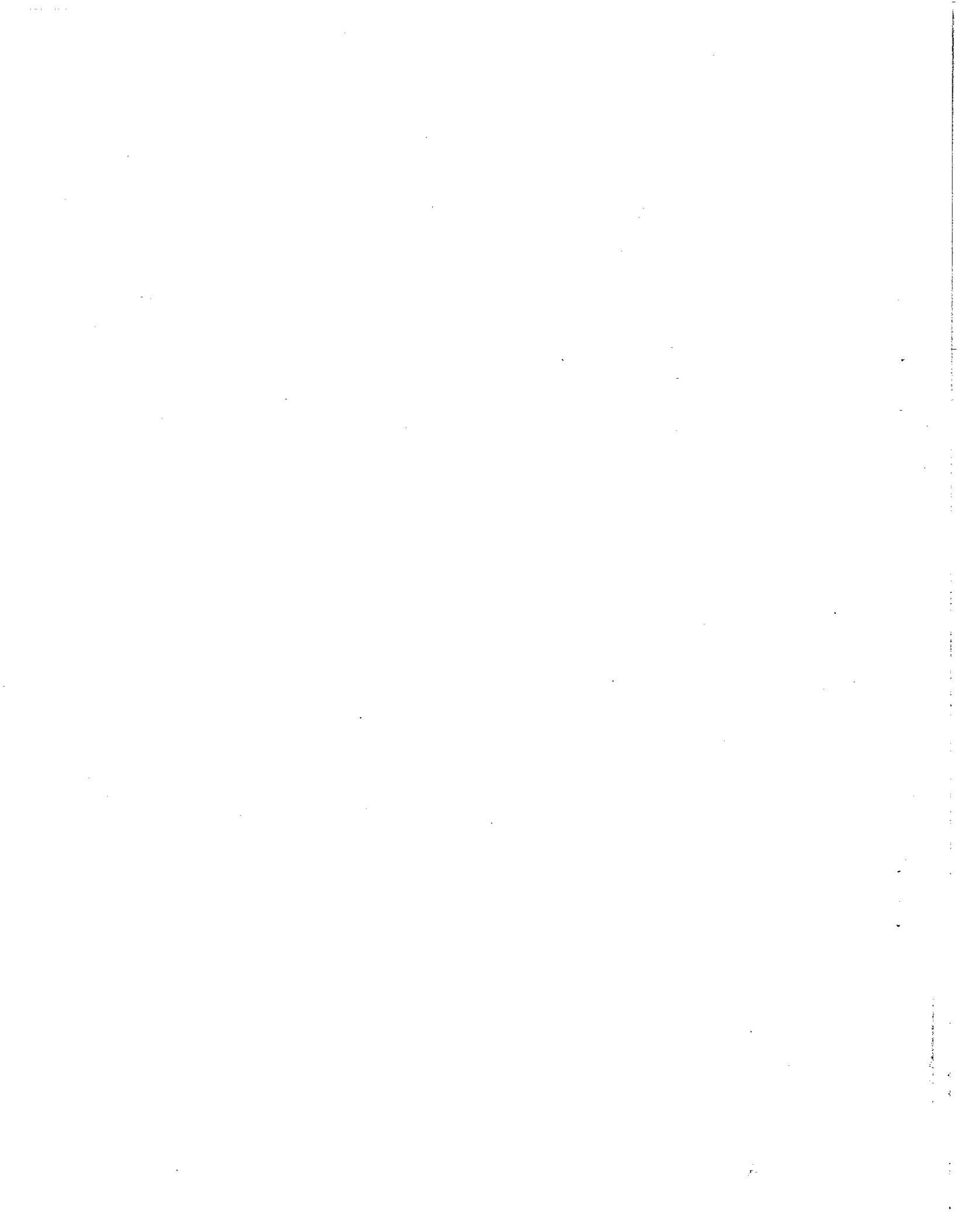




# 5' & 7' Wing Assembly - V900605 & V900607

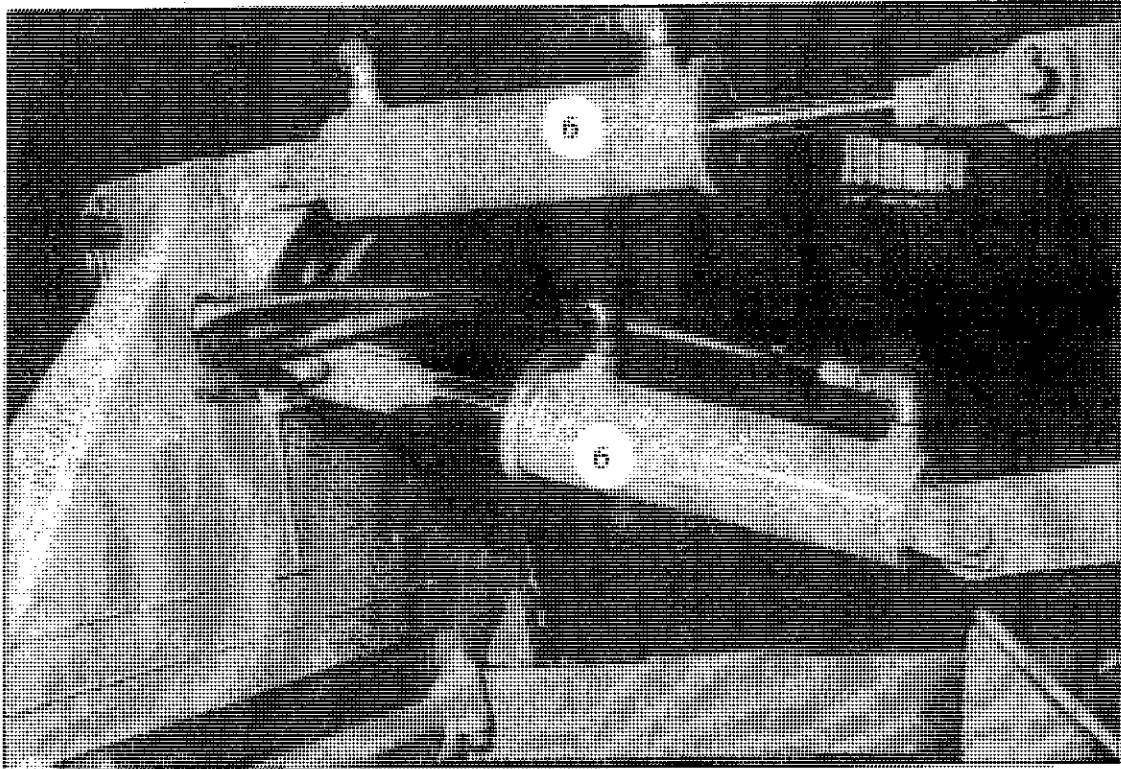
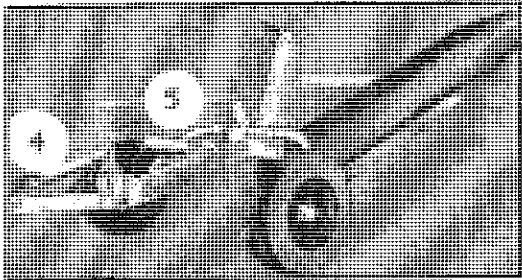
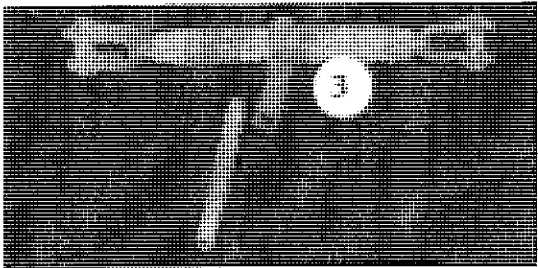
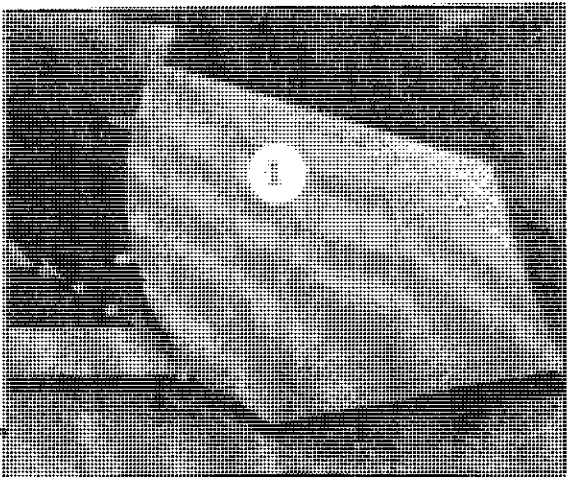
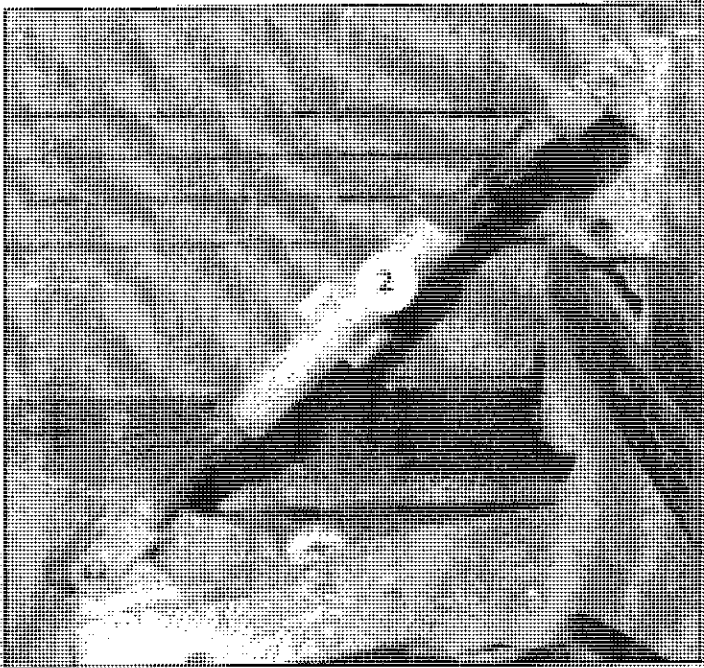
Fig. No.	Part No.	Description	Wing Assembly	No. Req.
1	V151258	5' Wing Weldment	5'	1
-	V151251	L.H. Wing	5'	1
-	V151252	R.H. Wing	5'	1
2	V901200	L.H. Bit (55-1/2)	5'	1
3	V901300	R.H. Bit (55-1/2)	5'	1
-	030470	1/2"-13 x 1-1/4 Carriage Bolt	5'	-
4	V904200	Rear Wing Brace	5'	1
1A	V151257	7' Wing Weldment	7'	1
-	V151253	L.H. Wing	7'	1
-	V151254	R.H. Wing	7'	1
2A	V151255	L.H. Bit (74")	7'	1
3A	V151256	R.H. Bit (74")	7'	1
4A	V904400	Rear Wing Brace	7'	1
5	V150701	Wing Shoe Weldment	5' & 7'	1
6	V151190	Wing Share Weldment	5' & 7'	1
7	V906200	Duckbill Nose Share	5' & 7'	1
-	278710	1/2"-13 x 1-3/4 Plow Bolt	5' & 7'	4
8	V150771	Lower Bracket	5' & 7'	1
9	V150900	Anchor Bar Weldment	5' & 7'	1
10	V901600	Middle Wing Brace	5' & 7'	1
11	-----	Wing Extension (See Optional List)	5' & 7'	-

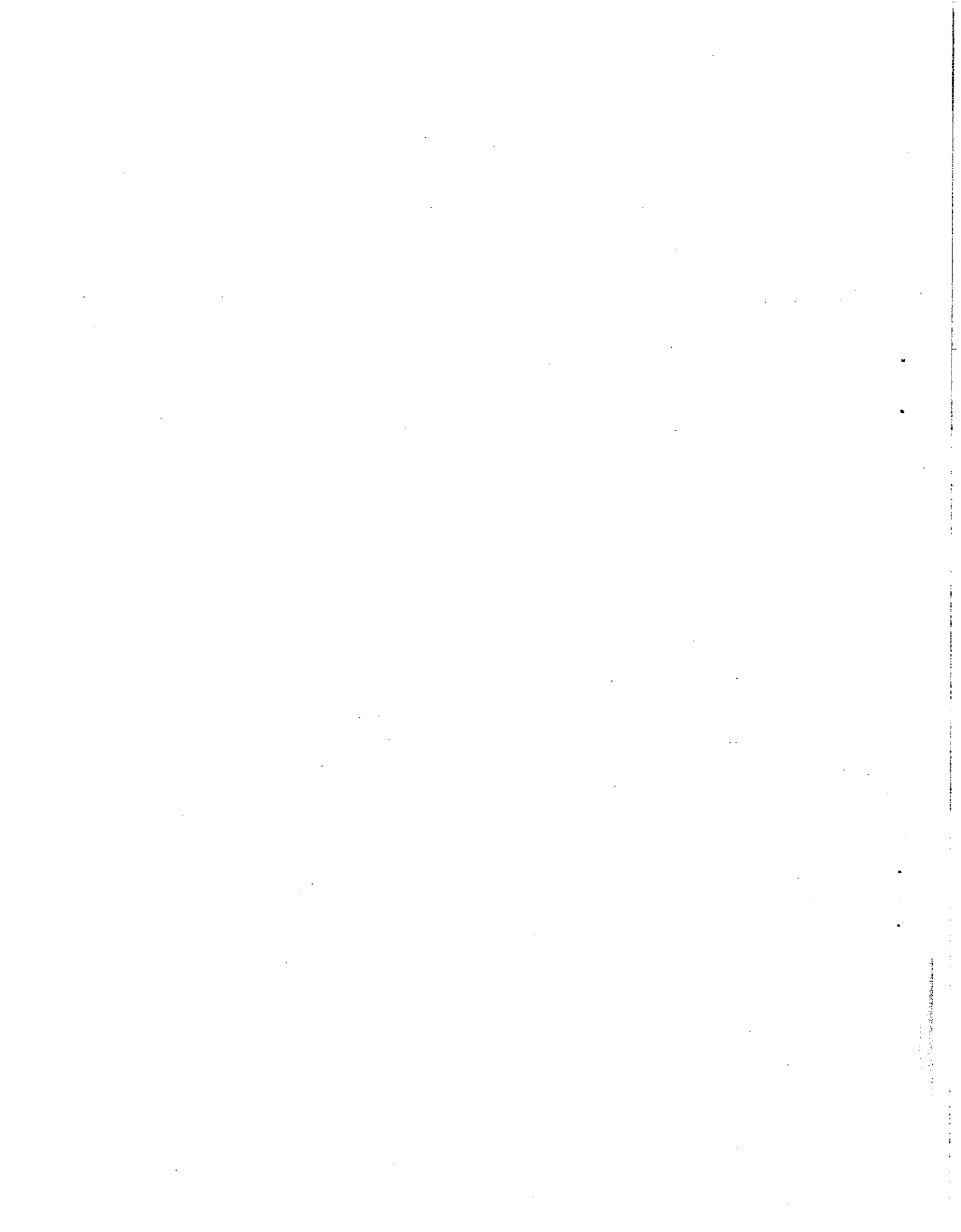
Note: To install, these wing assemblies on old C-2 tripods (V900015) or old chassis assemblies (V900010), order adapter kit V901810.





# Optional Equipment





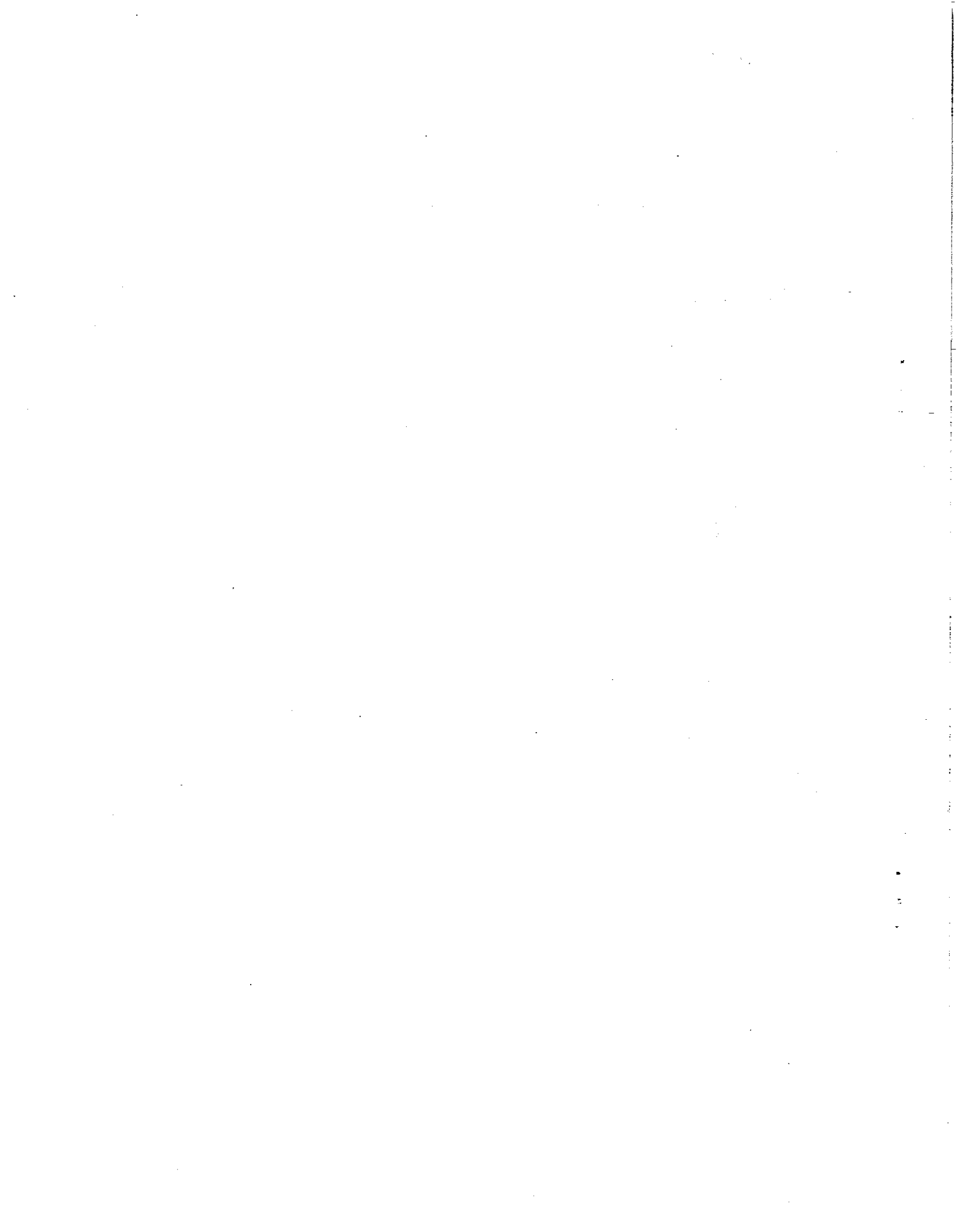
# Optional Equipment

Fig. No.	Part No.	Description	Use For	No. Req.
1	V151160	Wing Extension Kit	5' or 7' Wing	1
-	V151010	L.H. Wing (Shown on right side of ditcher)	5' or 7' Wing	1
-	V151020	R.H. Wing	5' or 7' Wing	1
2	V932060	Heavy-Duty Adjusting Screw-Width Control	ER Models	1
-	V932061	Pipe	ER Models	1
-	V932065	L.H. Screw	ER Models	1
-	V932066	R.H. Screw	ER Models	1
-	V932070	Clevis Pin	ER Models	2
-	V035830	Hairpin #6	ER Models	2
-	V932064	Special Locking Nut	ER Models	1
3	V172600	Ratchet Jack - Width Control	D5 & D7	1
-	V155197	L.H. Screw	D5 & D7	1
-	V155196	R.H. Screw	D5 & D7	1
-	V155194	Pipe	D5 & D7	1
-	V155195	Handle	D5 & D7	1
-	V701026	Clevis Pin 1 x 3	D5 & D7	2
-	I14370	1/4 x 2 Cotter	D5 & D7	2
4	V261500	Hydraulic Kit - Width Control	D5 & D7	1
-	U50300374	8" Stroke Cylinder	D5 & D7	1
-	V405800	1/2 x 96" Hose	D5 & D7	2
-	V701026	Clevis Pin	D5 & D7	2
-	I30330	1/4 x 1-1/2 Cotter	D5 & D7	2
5	V151200	Hydraulic Kit - Depth Control	D5 & D7	1
		Same as V261500 Kit except for Hoses	D5 & D7	2
	V150340	1/2 x 120" Hose	D5 & D7	2
6	V932095	Hydraulic Kit - Width or Depth Control	ER Models	1 or 2
		Same as V261500 except for Hoses		
	V441020	1/2 x 72" Hose	ER Models	2

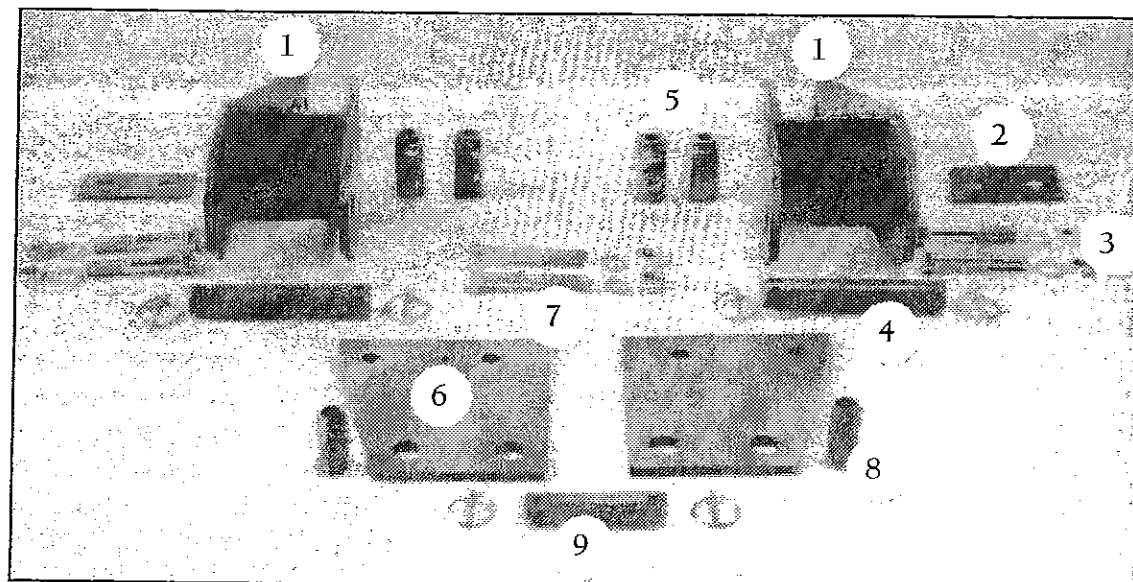
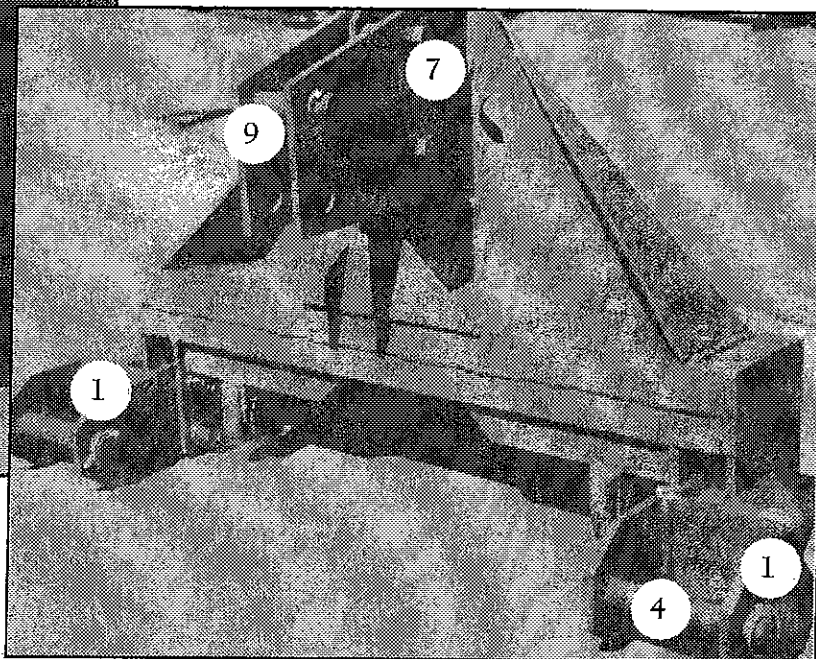
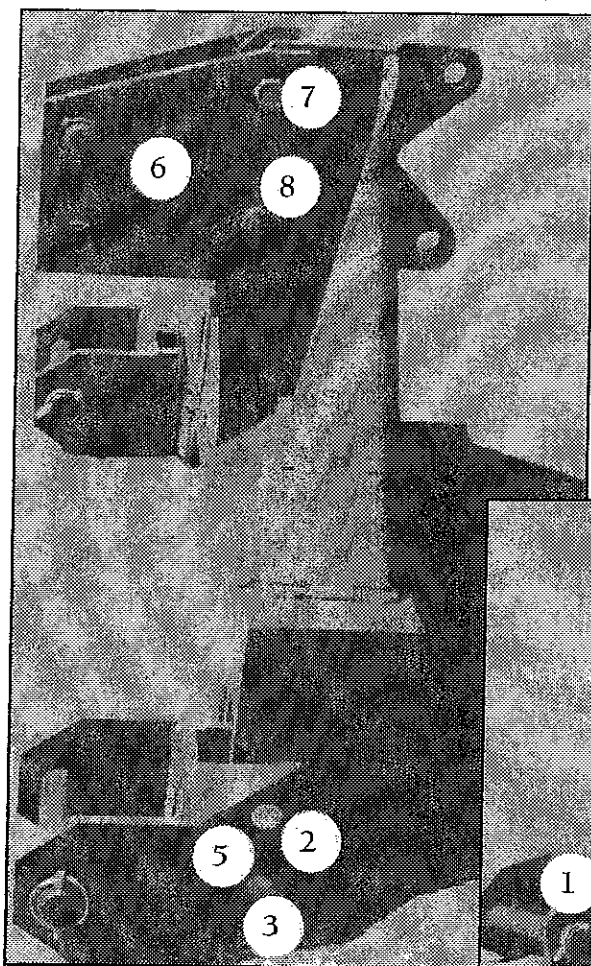
\*For Cylinder U50300374 use Seal Kit U50300377

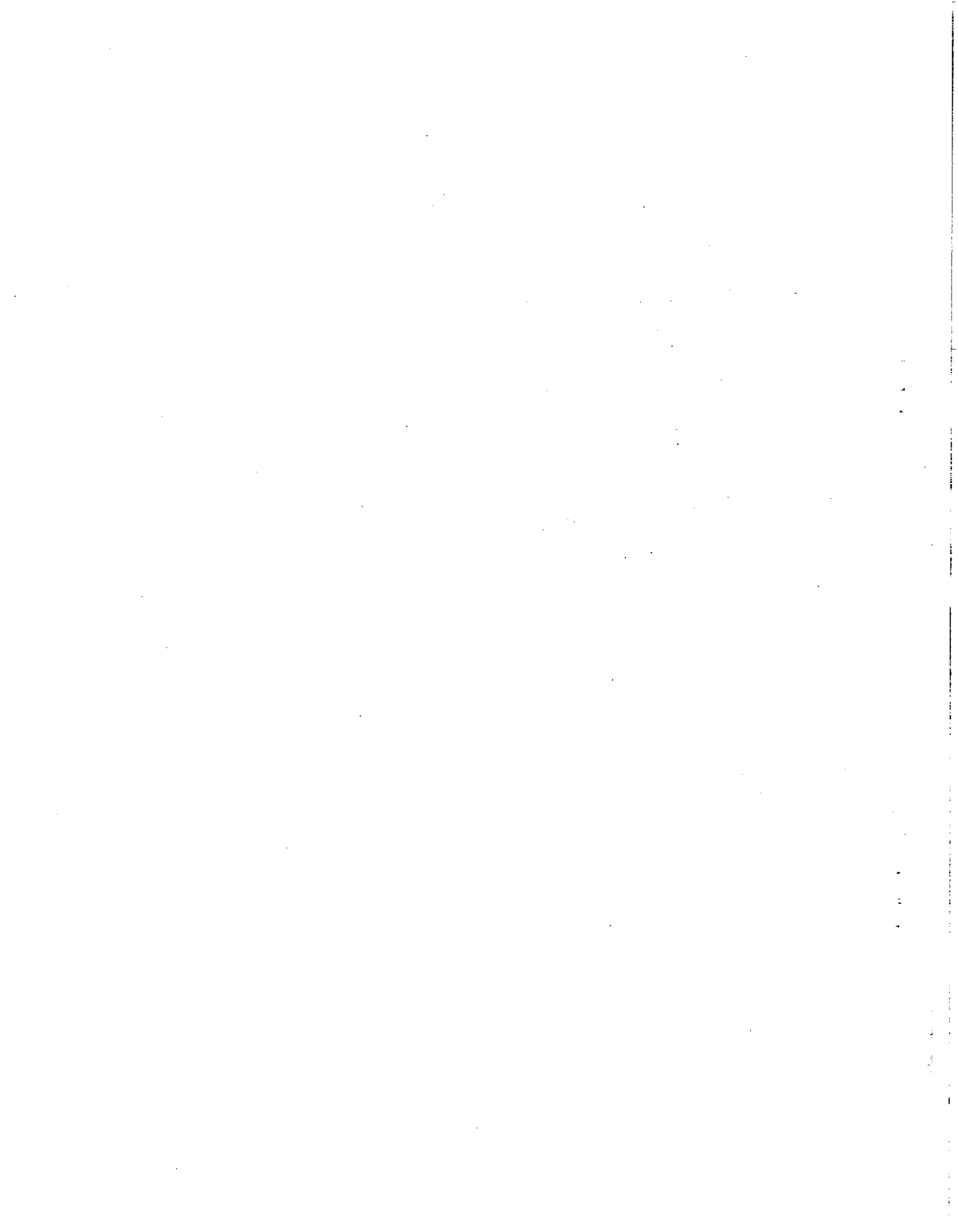


To install the new 5' or 7' wing assemblies on old tripod and trail-behind ditcher models which were shipped with wings containing the V903000 cast wing shoe, kit number V901810 must be ordered.



# Optional Equipment, Cont.





# Optional Equipment, Cont.

## Ditcher Quick-Hitch Kit #932100

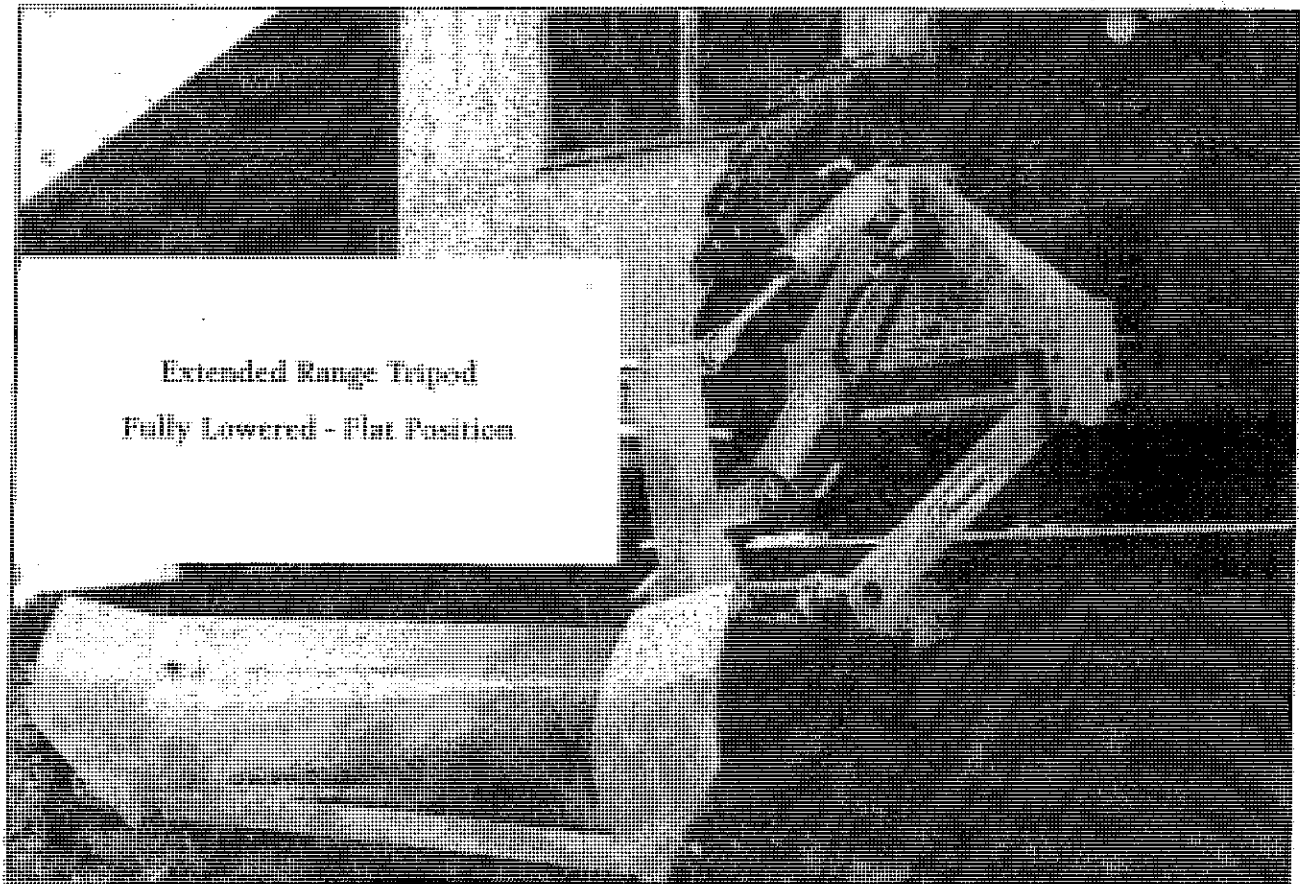
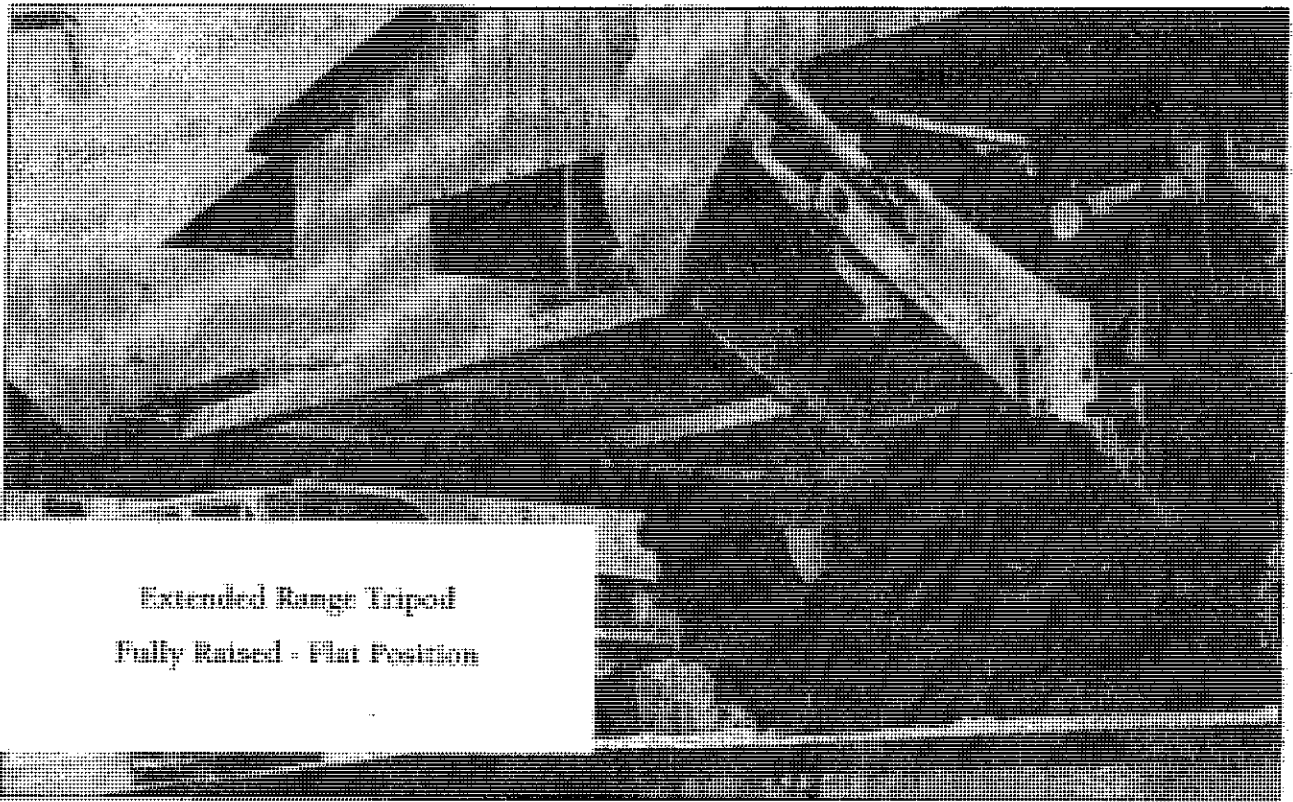
This kit provides the necessary parts to mount H5-3, H5-ER, H-7 and H7-ER Models to a Category 2 or 3 Quick-Hitch.

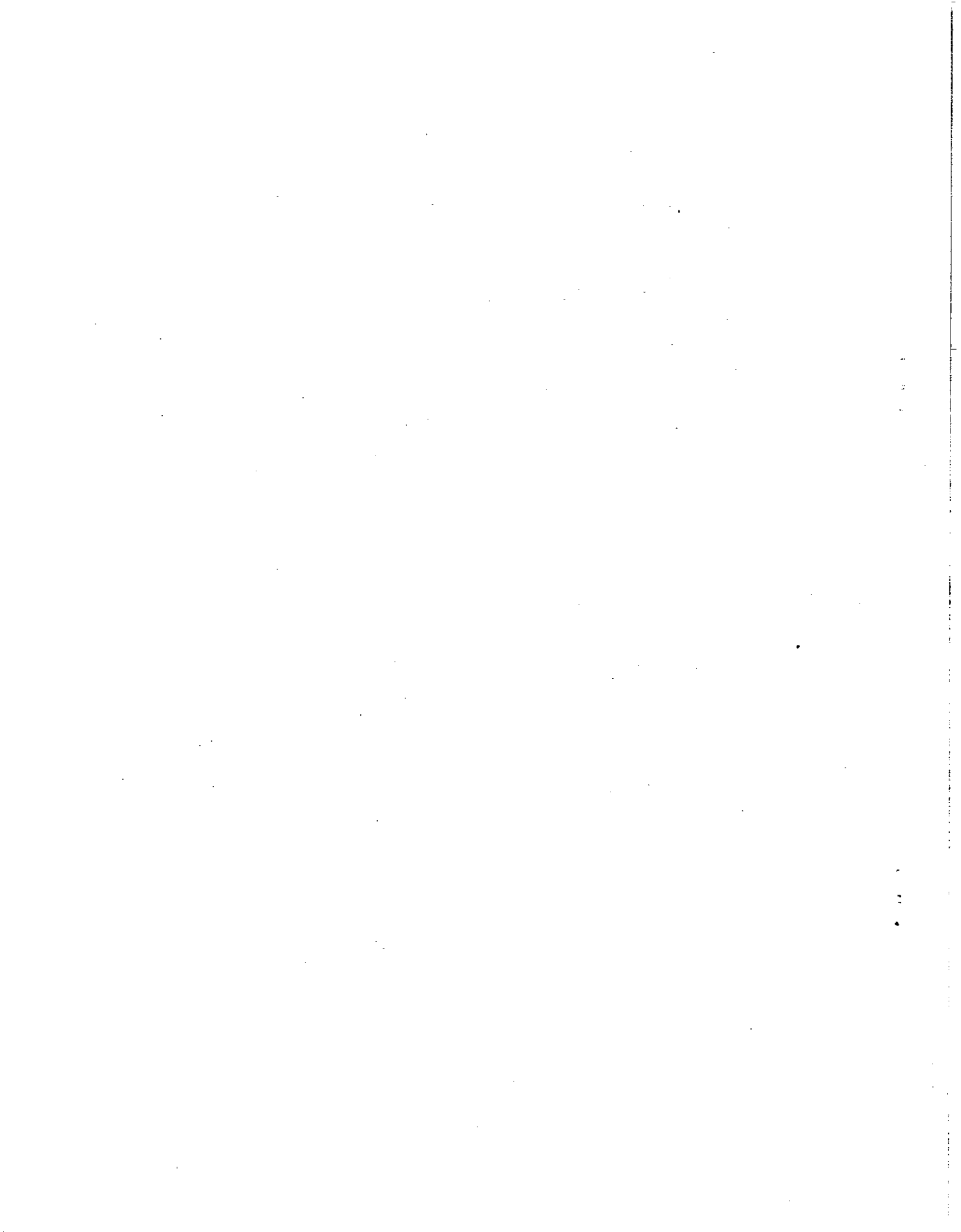
Fig.	Description	Part No.	No. Req.
1	Cat. 2 & 3 Weldment	V932110	2
2	Plate	V932102	2
3	3/4 x 4-1/2" Hex, Plated Bolt	055438	4
-	3/4" Flat Washer	063591	4
-	3/4" Hex Jam Nut	062141	4
4	Lower Pin	V932107	2
-	5/16" Lynch Pin	043065	4
5	Lower Sleeve	V932101	4
6	Upper Plate	V932105	2
7	3/4 x 5" Hex, Plated Bolt	055442	2
-	3/4" Lock Washer	063141	2
-	3/4" Hex Nut	061941	2
8	Upper Sleeve	V932104	2
9	Upper Pin	V932106	1
-	1-1/4" Lynch Pin	V180579	2



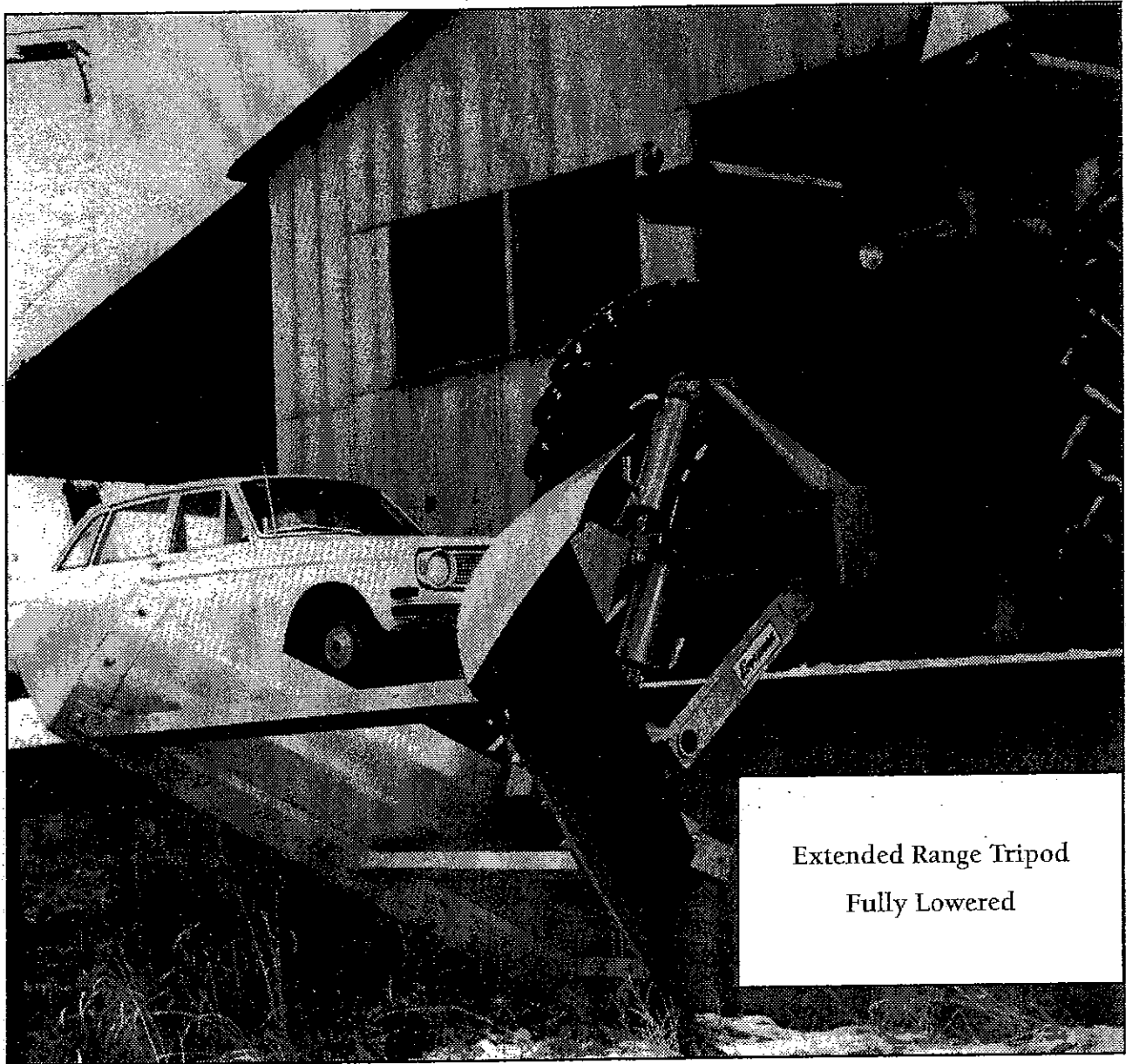


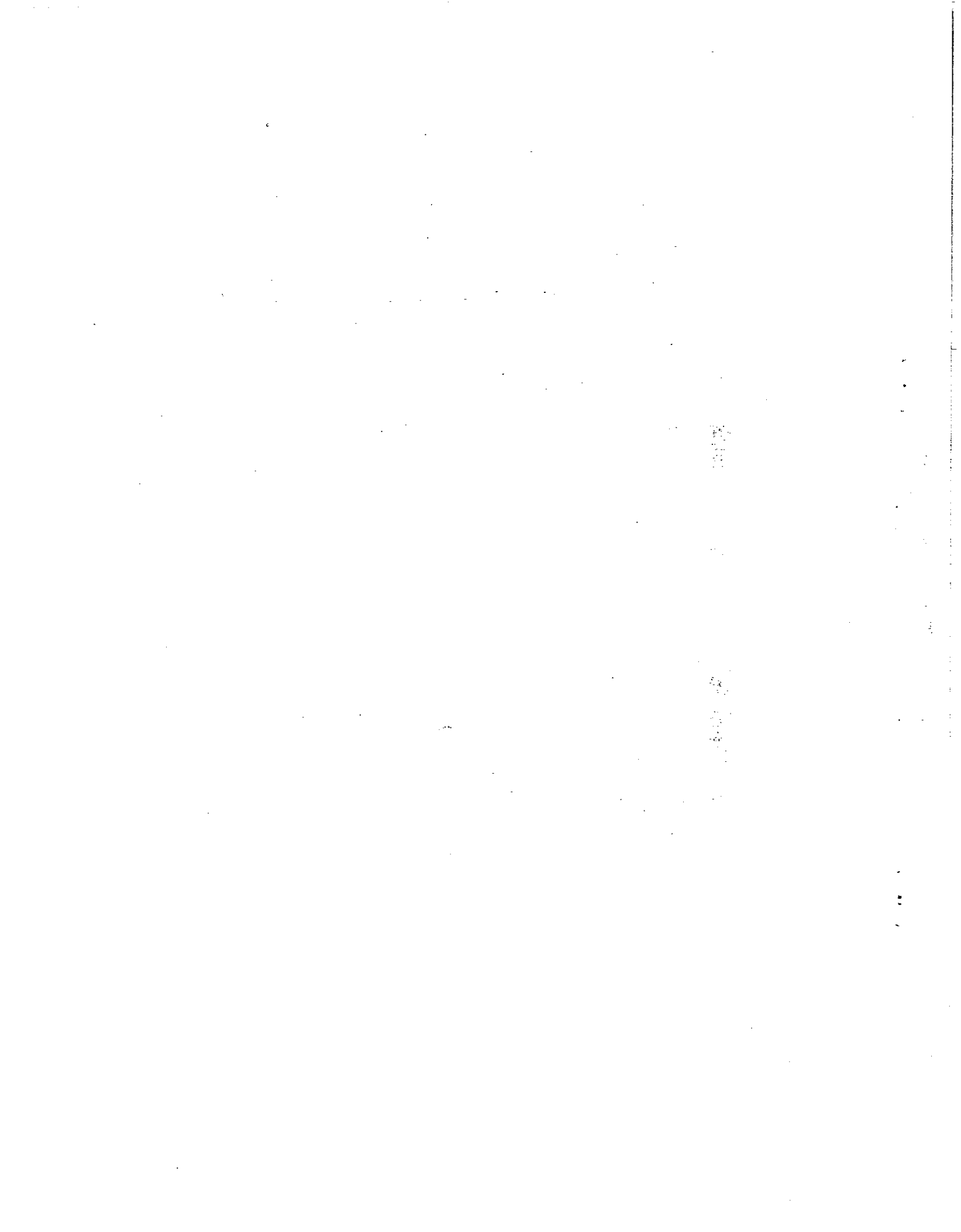
# Extended Range Tripod





# Extended Range Tripod





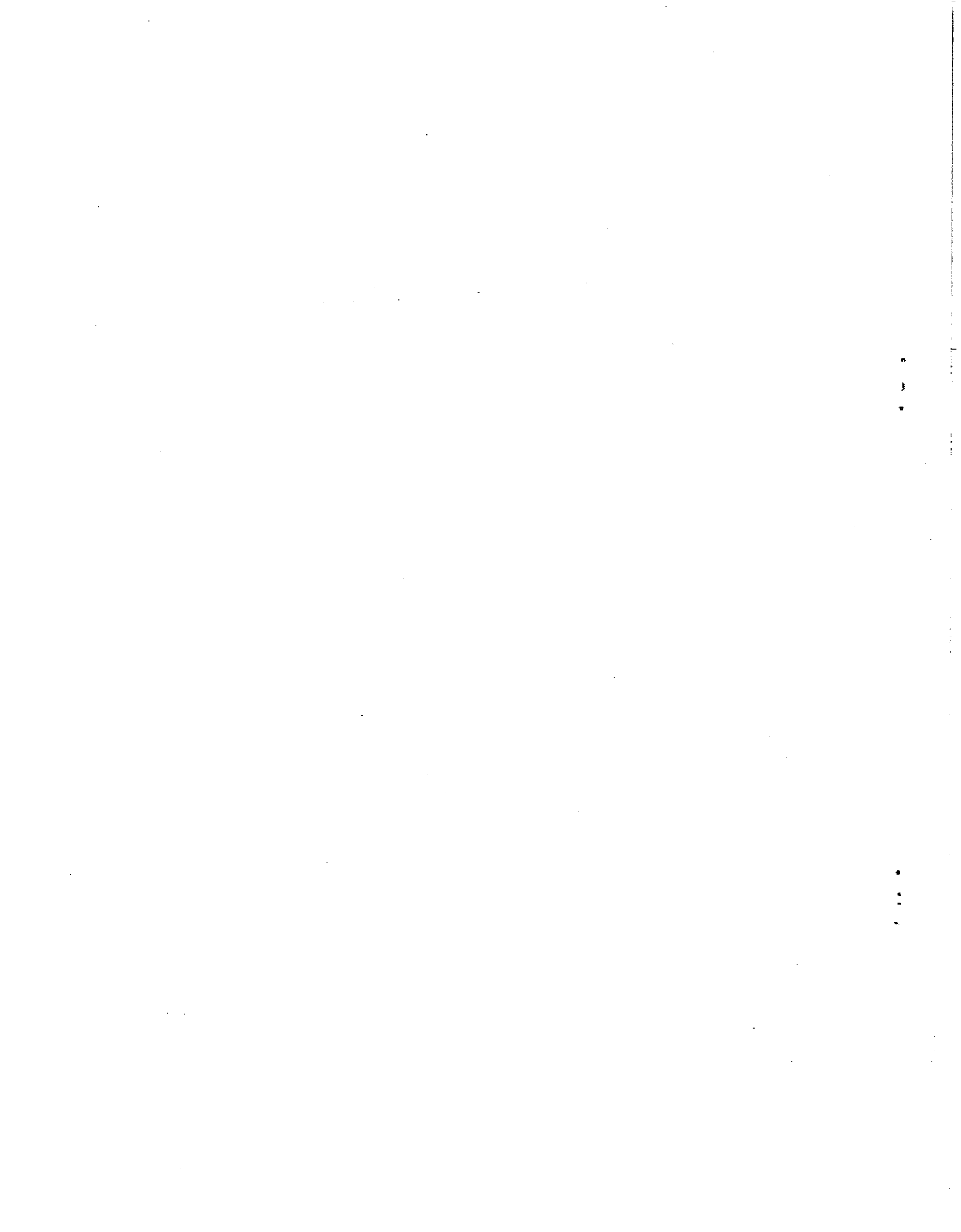


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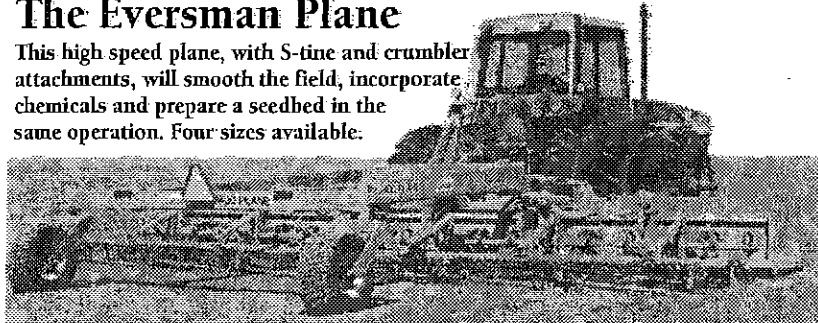
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