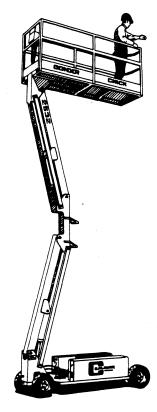
CHICK 2532 SERVICE MANUAL



CALAVAR CORPORATION provides this manual for the guidance of all owners, operators, and servicing personnel in order to obtain the longest possible trouble-free service. It contains general data, operating instructions, lubrication procedures, maintenance and repair procedures and illustrated part breakdown.

Serial No.	
Date Delivered	
CUSTOMER	

NOTE: Additional copies of this manual Part No. 92249 may be obtained through the Parts Department at **CALAVAR**.



NDOR 2532

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GENERAL SECTION

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INTRODUCTION

The primary purpose of this manual is to assist the operator and maintenance personnel to better understand, operate, and maintain the Self-Propelled Condor CHICK Aerial Work Platform in a safe and proficient manner.

This manual has been produced as a **VALUABLE** tool for our **CUSTOMERS**. It consists of an Operation Section, General Maintenance, Repair Procedures, and Illustrated Parts Section. It is in the **BEST INTEREST** of everyone involved with the operation, maintenance, and repair of the machine to **READ** and thoroughly **UNDERSTAND** all sections of this manual.

In general, this manual covers the servicing of the machine and ASSOCIATED STANDARD EQUIPMENT. In some cases Condors are supplied with various options and specialized equipment. If service information is not found in this manual and information is required, it is suggested that CALAVAR CUSTOMER SERVICE DEPARTMENT be contacted. The proper information will then be forwarded if available at time of request.

All product descriptions, illustrations and specifications were in effect at the time the manual was released for printing. Calavar Corporation reserves the right to make changes in design or to make additions to or improvements in its products without imposing any obligations upon itself to install them on its products previously manufactured.

NOTE

Throughout this manual reference may be made to the serial number of Condor units. When **ORDERING PARTS** use of the serial number will assist our Parts Department in giving prompt and accurate service. It should also be used in phone conversations with Calavar Service Department.

DESCRIPTION OF CONDOR

The Condor is an articulating aerial work platform and is rugged, maneuverable and safe. It is designed for work on firm level surfaces with normal operation controlled by an operator using a control box in the platform. All operational modes can be accomplished from the platform including drive and steer. The Condor provides industrial, construction and maintenance workers the ability to safely elevate and perform installation, maintenance, and replacement tasks.

The Condor **CHICK** is powered by four -6 volt D.C. batteries, producing a 24 volt D.C. system. Each battery is rated at 235 ampere hours and weighs 70 lbs. (wet). A 24 volt, 40 amp battery charger with 110 volt input is used to recharge the batteries after each day's use.

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FIGURE 01 INTRODUCTION

GENERAL-01-01

Prior to placing the **CONDOR CHICK** into service, a full check-out of the unit should be made, and the "Delivery Installation and Inspection Report" completed and mailed to **CALAVAR CORPORATION**. **CALAVAR** does want to know the condition of the **CHICK** as it arrives at the dealer/customer facility.

Each CHICK has undergone a thorough Quality Control inspection at CALAVAR CORPORATION so each unit leaves CALAVAR in the best possible condition. However, transportation damage may sometimes occur, and you must be aware of such damage and make note on the consignee copy of the freight bill, followed by your claim for repairs to the carrier.

CAUTION

CALAVAR CORPORATION IS NOT RESPONSIBLE FOR DAMAGE TO UNITS WHILE IN TRANSIT

- 1. Visually inspect all parts of the CHICK. From the slightest paint scratch to evidence of spilled or leaking battery acid, all deserve your attention.
- 2. Check for loose bolts, nuts, damaged or leaking hydraulic lines, hoses and fittings, broken wires or structural damage.
- 3. Check the tires for cuts or abrasions. (Standard tires are solid rubber.)
- 4. Check hydraulic oil level and cleanliness of oil. Add Dextron II, ATF (Automatic Transmission Fluid), if required.
- 5. Check battery with a hydrometer. Battery must have a full charge for CHICK to perform satisfactory. (A fully charged battery will have an electrolyte specific gravity of 1.265 to 1.285 at 77°F electrolyte temperature.)
- **6.** Check battery terminal connections for tightness and cleanliness. Loose or corroded terminals lead to loss of power.
- 7. Hydraulic control valves and aerial controls (condition of levers and switches) for use and serviceability.
- 8. Check ground controls and aerial controls (condition of levers and switches) for use and serviceability.
- 9. Check drive wheels and steering wheels; ensure all lug nuts are tight.
- 10. Fill out the "DELIVERY INSTALLATION AND INSPECTION REPORT" with your findings and mail to CALAYAR CORPORATION.



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FIGURE 01 INTRODUCTION

OPERATOR QUALIFICATIONS

Each Condor **CHICK** has undergone a thorough Quality Control inspection at the factory. The design incorporates built-in safety features. An average skilled person can readily become proficient in the safe operation of the **CONDOR**. It is a personnel lifting device and can be potentially dangerous in the hands of **UNTRAINED** or **CARELESS OPERATORS**.

Knowing the characteristics of the machine and function of the controls is important to **SAFE**, **PROPER OPERATION AND USE**. Becoming familiar with the controls and practices will result in smooth accurate positioning.

It is the responsibility of all users to read and comply with the following rules and information designed to promote **SAFETY** and **UNDERSTAND**—**ING** of the **Condor**.

- A thorough understanding of the operating characteristics and limitations of the CONDOR machine is always the first requirement for any user, regardless, of his prior experience with similar types of equipment.
- Only QUALIFIED/AUTHORIZED and TRAINED personnel must be ALLOWED to operate the Condor. A QUALIFIED/TRAINED operator is one who has READ and UNDERSTOOD the instructions in this manual and is thoroughly familiar with the operating characteristics and limitations of the machine.
- KNOW and FOLLOW all cautions, warnings and operating instructions on the machine.
- REPAIR and ADJUSTMENTS should be made only by QUALIFIED/TRAINED personnel.
- No MODIFICATION is to be made to the machine without prior written consent of the Calavar Engineering Department.
- UNDERSTAND and OBEY all Federal, State and Local statutes and regulations applying to safe operation and use of aerial work platform.

YOUR SAFETY IS OUR UTMOST CONCERN AND YOUR RESPONSIBILITY

CALRYAR

FIGURE 02 OPERATOR QUALIFICATION

EXPINOR 2532

GENERAL INFORMATION SECTION

CONDOR CHICK

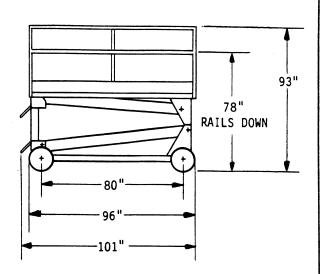
SPECIFICATIONS

Maximum Platform Height
Maximum Working Height-Nominal
Platform Size
Rated Platform Capacity
Overall Length
Overall Width
Overall Height - Rails Up
Wheel Base
Travel Speed - Stowed
Travel Speed - Raised
Turning Diameter - Outside
Weight - Approximate

Tires 4.00 x 8
Electrical System - Battery Powered 24 V.D.C.
Hydraulic System - Max. Pressure 2,775 P.S

25'6" 19'6" 96"x30.5"x39" 750 lbs. 8'5" 2'8" 7'9" 6'8" 2.5 mph

1.2 mph 24' 3,600 lbs. 4.00 x 8 (solid) 24 V.D.C. 2,775 P.S.I.



LIFT SYSTEM TIMES

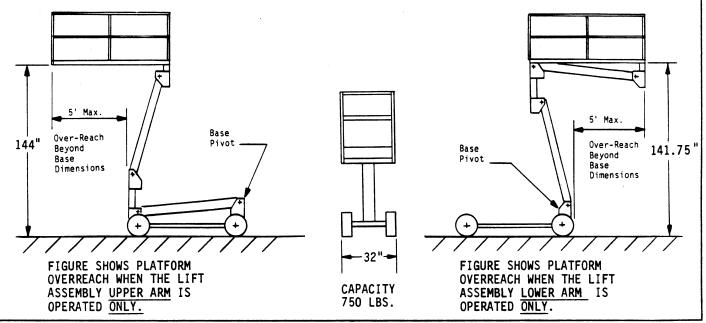
Lower Arm - Up Lower Arm - Down Lower Arm - Down Upper Arm - Up Upper Arm - Down 22 - 24 Seconds 38 - 50 Seconds 21 - 23 Seconds Upper Arm - Down 35 - 39 Seconds

DRIVE SYSTEM TIMES - 50 FEET ON FIRM LEVEL GROUND

High Speed - Forward 14 - 16 Seconds
High Speed - Reverse 14 - 16 Seconds
Low Speed - Forward 26 - 30 Seconds
Low Speed - Reverse 26 - 30 Seconds

Times established with batteries fully charged and CHICK operated from the platform (one man in platform).

PLATFORM OVERREACH



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FIGURE 03 SPECIFICATIONS

GENERAL - 03 - 01

FROM SERIAL NO. 1466



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Self-Propelled Booms and Scissors WARRANTY

Calavar Corporation ("Calavar") warrants each new aerial work platform made by Calavar and bearing the trademark "Condor" to be free from defects in material and workmanship.

The obligation and liability under this Warranty is expressly limited to repairing or, at Calavar's option, replacing free of charge at its factory in Santa Fe Springs, California or at an authorized repair facility as designated by Calavar, any part proving defective under normal use and service within 180 days after said aerial work platform is first placed in service or within one year after the original shipment of said aerial work platform from Calavar's plant, whichever first occurs.

Parts claimed to be defective and for which repair or replacement is desired shall be, if requested by Calavar, returned transportation prepaid to Calavar's factory for inspection. Replacement parts provided under the terms of this Warranty are for the remainder of the Warranty period applicable to the aerial work platform in which they are installed as if such parts were original components of the aerial work platform.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES. EXPRESSED OR IMPLIED, IN-CLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE, AND THE OBLIGATION AND LIABILITY OF CALAVAR UNDER THIS WAR-RANTY SHALL NOT INCLUDE ANY TRANSPORTATION OR OTHER CHARGES OR THE COST OF IN-STALLATION OR ANY LIABILITY FOR DIRECT, INDIRECT OR CONSEQUENTIAL DAMAGES OR DELAY RESULTING FROM THE DEFECT.

Any operation beyond rated capacity or the improper use or application of equipment or the substitution upon it of parts not approved by Calavar or any alteration or repair by others in such manner as, in Calavar's judgment, to affect the equipment materially and adversely shall void this Warranty. No representative of Calavar is authorized to change this Warranty in any way, and no attempt, effort or promise to repair equipment of Calavar either by Calavar or by any representative of Calavar at any time shall change or extend this Warranty in any way. This Warranty covers only new and unused aerial work platforms manufactured by Calavar. Products or parts manufactured by others are covered only by such warranties as are extended to Calavar by its suppliers.



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FIGURE 04 CALAVAR WARRANTY

WARRANTY CLAIM PROCEDURE

WARRANTY CLAIM

This procedure is offered to assist you in properly filling out the CALAVAR Warranty Claim Form. The more information supplied on this form the better Calavar can evaluate the problem and expedite processing.

The form should be typed or filled out legibly in ink. Several copies are utilized, thus ensure sufficient pressure is applied to make all copies legible.

PROCEDURE

Numbers noted below correspond with block numbers on claim form.

- 1. Where to mail claim CALAVAR'S address, phone number.
- 2. Dealer information: Name of company, address, name of person submitting claim. This will be the name used on all correspondence.
- 3. Owner information: Name of company, address. If same as above column No. 2 write "SAME AS ABOVE".
- 4. Claim information:
 - A. Dealer's claim number: This is necessary as there may be more than one claim for this unit.
 - B. **CALAVAR** warranty number. This will be completed by the Warranty personnel at **CALAVAR**.
 - C. Return Authorization No.: If CALAVAR deems that the defective material (s) be returned, a return authorization number will be assigned and appropriate paperwork will be mailed to the dealer/owner. Upon receipt of the paperwork, the dealer is to ship the parts freight prepaid to CALAVAR for evaluation and further disposition. All dates pertinent to the claim are to be registered.
- 5. This area is provided to identify the **CHICK**. It is important to furnish serial number, date of delivery (date received by you), in-service date (date unit is sold by you or put into operation), model number.
- 6. This area is for part number (s) and description (s). The CALAVAR invoice number and amounts are necessary in order to properly process the claim. All dollar amounts are to be in U.S. currency.
- 7. A detailed labor description is required in order to fully evaluate the hours of your claim and the amount **CALAVAR** will approve.
- 8. This area is filled in by **CALAVAR** personnel and is for approval or denial of the claim and a brief explanation of steps taken.



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FIGURE 05 WARRANTY CLAIM PROCEDURE

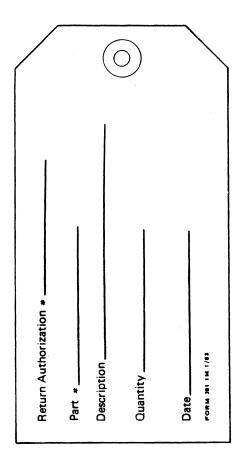
9. Upon completion of form, remove light yellow copy titled "Dealer Copy", retain, and send remaining copies to CALAVAR.

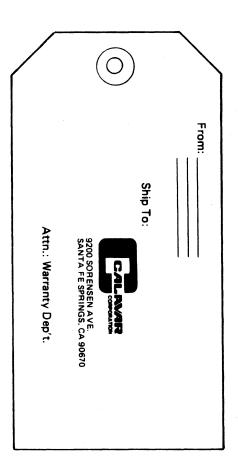
RETURN AUTHORIZATION

A Parts Return Authorization form is provided when **CALAVAR** deems it necessary to have the parts returned for evaluation. The form is issued by the Warranty or Parts Department of **CALAVAR**.

PROCEDURE

- The form will be filled out by CALAVAR unless requesting necessary information and you will receive a blue copy and white copy as well as a green shipping tag.
- 2. Attach green shipping tag to part and insert return packing slip (blue copy).
- 3. Ship part to CALAVAR PREPAID.





Part must be returned to Calavar within 45 days from date of authorization.



FIGURE 05 WARRANTY CLAIM PROCEDURE



9200 SORENSEN AVE., SANTA FE SPRINGS, CA 90670-2645 (213) 946-6561 TELEX 69-8378 CABLE: CALACORP

WARRANTY RETURN **AUTHORIZATION**

NO.

SHOW THIS NUMBER ON ALL CORRESPOND-ENCE, TAGS, DEBIT OR CREDIT MEMOS.

):					
CALAVAR CLAIM # Dipole items listed below are authorized for return to our factory. We are enclosing					ATTN:	
The items listed below are authorized for return to our factory. We are enclosing					REF. YOUR CLAIM	И#
The items listed below are authorized for return to our factory. We are enclosing					CALAVAR CLAIM	#
he items listed below are authorized for return to our factory. We are enclosing						
in the items being returned. The BLUE copy of Calavar's Return Authorization must accompany the material you are returning. Return on ems authorized. If a discrepancy in quantity or description developes at the time of shipment, please contact this office. — ALL ITEMS SUBJECT TO CALAVAR INSPECTION. — ALL FREIGHT SHIPMENTS MUST BE "PREPAID" F.O.B. SANTA FE SPRINGS, CALIFORNIA. — UNAUTHORIZED MATERIALS RECEIVED BY CALAVAR MAY BE REFUSED AND/OR RETURNED FREIGHT COLLECT. — THIS AUTHORIZATION EXPIRES AFTER FORTY-FIVE (45) DAYS FROM THE ABOVE DATE. — INFORMATION REQUESTED ON THIS FORM MUST BE COMPLETED FOR EACH ITEM RETURNED. — RETURNED MATERIAL DOES NOT GUARANTEE CLAIM APPROVAL. Calavar's O Quan. Part Number Part Description Trivoice No. Part Description Or additional items please attach a separate sheet. You need further advice or information regarding the items on this Return Authorization, please contact our Warranty Represign of the items on this Return Authorization, please contact our Warranty Represign of the items on this Return Authorization, please contact our Warranty Represign of the items on this Return Authorization, please contact our Warranty Represign of the items on this Return Authorization, please contact our Warranty Represign of the items on this Return Authorization, please contact our Warranty Represign of the items of the items on this Return Authorization, please contact our Warranty Represign of the items on this Return Authorization, please contact our Warranty Represign of the items of th	Dea	aler:			-	
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				on regarding the items on this Return Auth		
EMARKS:			ii	n Santa Fe Springs, CA. SIGNED		
	EMAP	RKS:				



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FIGURE 06

WARRENTY RETURN AUTHORIZATION FORM

GENERAL - 06

FROM SERIAL NO. 1466



WARRANTY CLAIM

MAIL TO CALAVAR CORPORATION 9200 SORENSEN AVE., SANTA FE SPRINGS, (213) 946-6561 TELEX 69-8378 CABLE: C.	CA 90670	ME			EALER		
3 OWNER	ADD	DRESS					
NAME	CITY	Υ			STATE_	ZIP	
	SUBI	MITTED	3Y				
ADDRESS	4						
5	DEA	LER CLA	IM NO				
UNIT SERIAL NO MODEL	CAL	AVAR W	ARRANTY NO	٠			
DELIVERY DATE	RET	URN AUT	THORIZATION	NO			
IN SERVICE DATE	DAT	E PARTS	RET		DATE	OF CLAIM	
CONDOR FIREBIRD SCISSORS REPLAC	EMENT PART DAT	E OF FAI	LURE		DATE	OF PARTS REPL	
PART NUMBER 6	DESCRIPTION				VOICE IMBER	LIST EACH	NET AMOUNT
					·····		
·							<u> </u>
							·
7 LABOR DESCRIPTION			LABOR HOURS	ć	AMOUNT CLAIMED	TOTAL PARTS	
	U	ABOR				TOTAL LABOR	
					TOTAL L	ABOR & PARTS	
APPROVED BY:	DA	ATE:					APPROVED
THIS SPACE TO BE USED FOR REMARKS:							AMOUNT
						PARTS	
						LABOR	
						TOTAL	
APPROVED DENIED SIGNED					DATI	i:	



FIGURE 07 WARRANTY CLAIM FORM

GENERAL - 07 - 01

FROM SERIAL NO. 1466

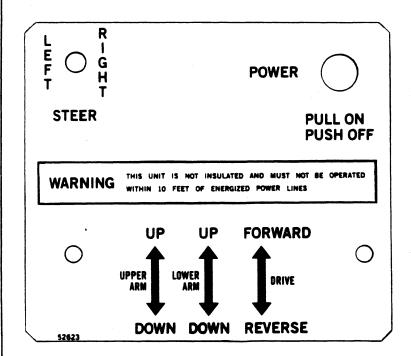
SAFETY ALERT DECALS

DANGER, CAUTION, AND WARNING DECALS are designed for your protection. They are installed on the unit to keep you constantly aware of the dangers. Know and adhere to the information they provide.



21882-1

PLATFORM CAPACITY 750 LBS.





52759



IN THE SAFE OPERATION OF THIS MACHINE.

TRAINING INCLUDES COMPLETE KNOWLEDGE OF YOUR EMPLOYER'S WORK RULES, ALL GOVERNMENTAL REGULATIONS, AND MANUFACTURER'S OPERATOR AND SAFETY MANUALS RELATIVE TO THIS MACHINE'S SAFE USE.

AN UNTRAINED OPERATOR SUBJECTS HIMSELF AND OTHERS TO **DEATH OR SERIOUS INJURY**

21882-3

FIGURE 80 SAFETY ALERT DECALS

GENERAL - 08 -

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FROM SERIAL NO. 1466

LOADING - TRANSPORTING - UNLOADING

The Condor CHICK although small in stature compared to larger type construction equipment, still requires the same care and attention in LOAD-ING, TRANSPORTING, and UNLOADING as does the larger, heavier type equipment. At no time should this be OVERLOOKED.

LOADING AND UNLOADING

Before loading/unloading the Condor, inspect for any physical damage or defects. DO NOT OPERATE A DEFECTIVE OR MALFUNCTIONING UNIT.

CAUTION

The Condor "CHICK" Model 2532 weighs approximately 3,600 lbs. (1,634 kgs). Whatever means is used to load/unload the unit, it should be of sufficient stength to withstand the weight of the Condor.

DO NOT ATTEMPT TO OPERATE THE UNIT UNTIL YOU HAVE READ AND THOROUGHLY UNDERSTAND ALL INFORMATION PROVIDED ON THE OPERATION OF THE UNIT. FAMILIARIZE YOURSELF WITH THE CONTROLS, THEIR FUNCTION AND OPERATION.

A. - RAMP METHOD

- 1 Ensure that ramp being used is sufficiently strong to handle the weight of the unit.
- 2 Ramp should be set at an angle no steeper than 12° or 21% (i.e., 25-1/2" rise in 10 feet).
- 3 Before driving the unit on the ramp, test all the controls and the brake system. Make sure that the operating levers return smoothly to the neutral, center position. Then move the Condor slowly back and forth and ensure the brakes automatically apply (i.e., brake pin is **ENGAGED** each time the drive control lever goes back to the neutral position.
- 4 Move the unit on the truck or trailer, up or down the ramp approximately a foot at a time allowing the steering corrections to be made. Keep unit in alignment with the carrier and ramp during the loading/unloading procedure.

B. FORKLIFT LOADING/UNLOADING METHOD

FIGURE

09

1. Ensure that <u>forklift</u> has sufficient capacity to handle the weight of the Condor **CHICK**.

CALRAR

LOADING, TRANSPORTING AND UNLOADING PROCEDURE

ISSUED JAN. 89

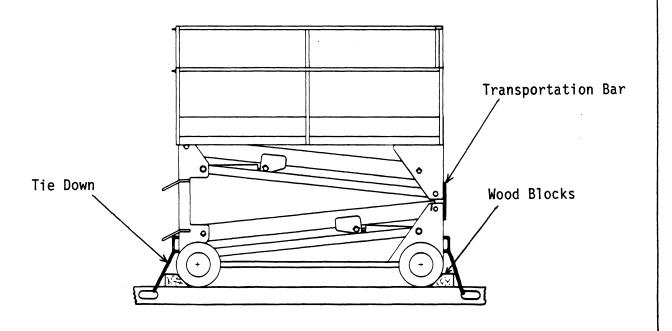
GENERAL - 09 - 01

- 2. The forks should be long enough to completely go across the width of the frame and should be positioned as close to the inside of the tires as possible. When lifting machine, center the forklift between the CHICK tires.
- 3. Unit should be picked up from side of unit and should only be raised to a height to clear any obstructions.
- 4. Keep forklift travel with **CHICK** load to a minimum and set gently down to ground level.

C. TRANSPORTING

The **CHICK** can be easily and safely transported from job site to job site if a few simple rules and procedures are followed:

- 1. Block all wheels to prevent forward and reverse motion.
- 2. For long hauls it is recommended that wood blocks be placed under the base plate at each axle and at a sufficient height to take some load off the tires (tires just barely touching). This will protect steering spindles and drive motors from damage caused by the constant pounding.
- 3. Tie down the **CHICK** with chains or cables running them through the tie down brackets.
- 4. Install the transportation bar between the base pivot and the platform pivot. This protects the upper arm from damage caused by bouncing/pounding.



CALRVAR

FIGURE 09

LOADING, TRANSPORTING AND UNLOADING PROCEDURE

GENERAL - 09-02

CALAYAR CORPORATION

SELF-PROPELLED CONDOR CHICK

		14	SIALLAII	ON AND II	NSPECTIONS	KEPUKI	
Dealer	's Name			A	Address		
End Us	er (Sold To)			<i>p</i>	ddress		
transp YOU. This r	ondor Scissor was inspected orting, and unloading of the eport, when complete, must be 2645 to set up the warranty	unit, it	will be	necessar	ry to perfo	rm the following in:	spection. THIS HELPS US HELP
Item	Description of Jacobian	T4	, 			Initial	Daniela
No.	Description of Inspection/	lest				If O.K.	Remarks
1.	GENERAL APPEARANCE						
	A. Visual Damage B. Fluid Leaks					+	
	C. Paint Damage						
	D. Missing Decals						
2.	A. Arm Center Pivots B. Platform Guard Rails C. Steering Knuckles						
3.	TIRE & WHEEL CONDITION	LF	LR	FR	RR		
	A. Cuts B. Lug Nuts Tight						
4.	POWER SOURCE A. Battery Powered						
	1. Battery Condition						
	a. Electrolyte Le	wo1					
	b. Terminal Conne	 		· · · · · · · · · · · · · · · · · · ·			
	2. Battery Charger Co						
	3. Electric Motor						
5.	HYDRAULIC COMPONENTS - VIS	UAL					
	A. Hydraulic Tank Fluid L	evel					
	B. Pump						
	C. Drive Motors D. Control Valves						
	E. Steering Cylinder						

FIGURE CALRYAR

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DELIVERY INSTALLATION AND INSPECTION REPORT

GENERAL -

CEDNOR 2532

GENERAL INFORMATION SECTION

Item			Initial	
No.	Description of Inspection/Test		If O.K.	Remarks
5.	HYDRAULIC COMPONENTS - VISUAL (C	ont'd)		
	F. Lift Cylinder			
	G. Brake Release Valve			
	H. Hoses & Connections			
	I. Tubes & Connections			
6.	ELECTRICAL COMPONENTS - VISUAL			
	A. Solenoids			
	B. Limit Switches			
	C. Toggle Switches			
	D. Wiring & Connections			
	E. Control Cable & Connections			
7.	GROUND CONTROL STATION			
	A. Visual Condition			
	B. Power Shut-Off Switch			
	C. Lift Control			
	D. Free Wheeling Valve			
	E. Instruments/Gauges			
	F. Pump Switch			
8.	PLATFORM CONTROL STATION			
	A. Visual Condition			
	B. Function Switches			
	C. Control Valves			
	D. Power Switch			
	E. Steering Switch			
	F. Foot Switch			
9.	FUNCTION OPERATION			
	A. Lift Control	1.0.		
	B. Drive High	Low		·
	C. Steer Right	Left		
	D. Brakes	· 		
	E. Height Interlock			

Inspection Performed By				
	Name	Title	Date	



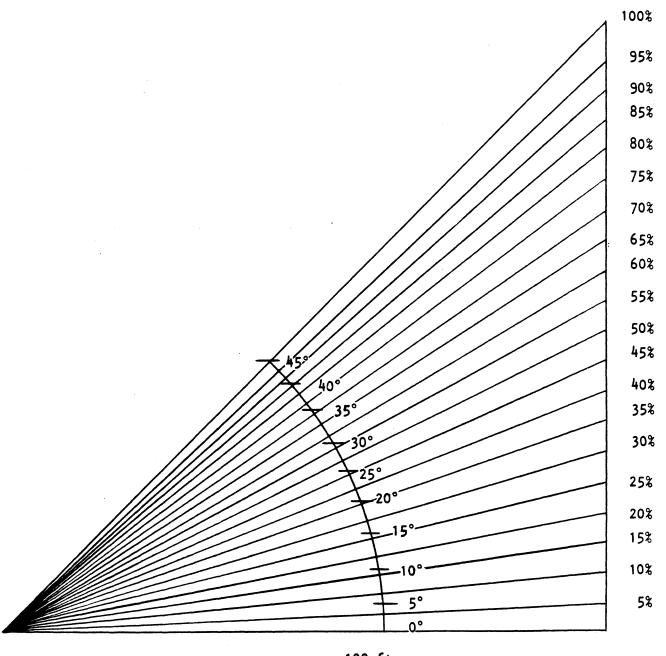
DELIVERY INSTALLATION AND INSPECTION REPORT

GENERAL - 10-02

10

GRADEABILITY CONVERSION CHART

Since the conversion of gradeability if often referred to in either percentages or in degrees, this chart is being provided for your convenience to quickly convert percents to degrees.



--- 100 ft. ---



FIGURE

11

CONVERSION TABLE (DEGREE TO PERCENTAGE)

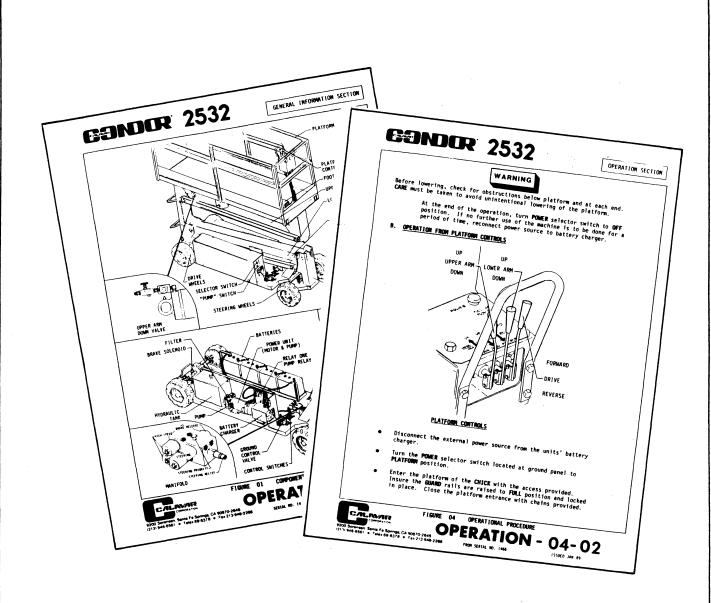


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-00	Table of Contents
-01	Component Identification
-02	Pre-operation Inspection
-03	Control Familiarization and Limitations
-04	Operational Procedure



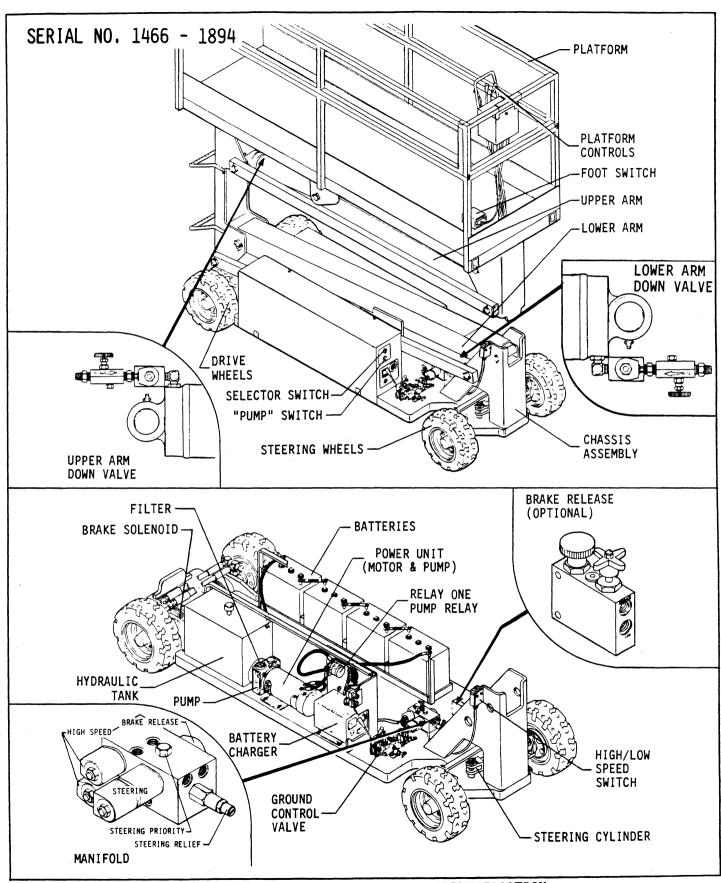
FIGURE 00

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CENDOR 2532

OPERATION SECTION



CALRVAR

FIGURE 01 COMPONENT IDENTIFICATION

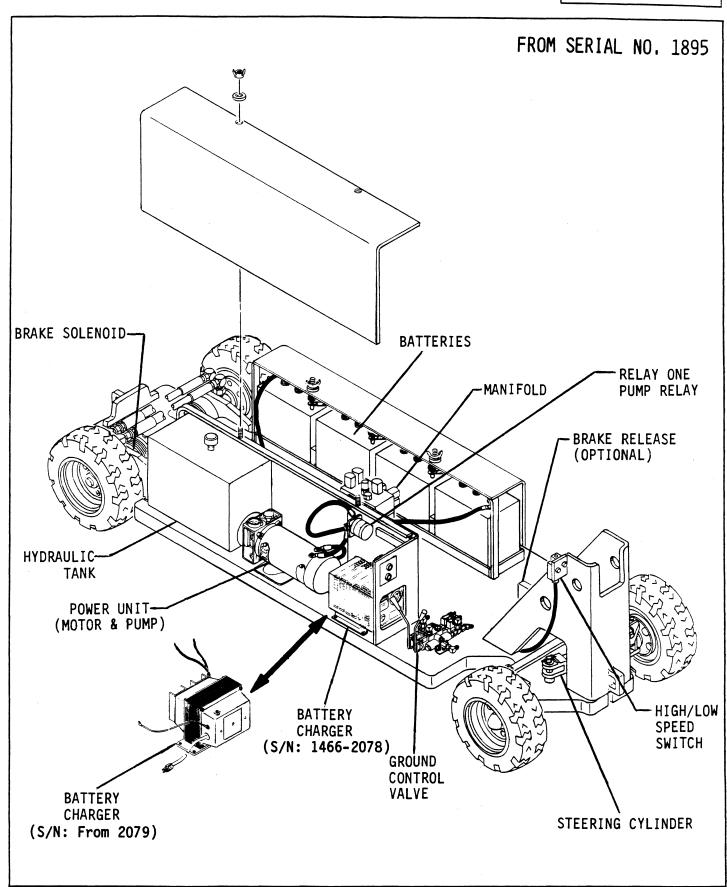
OPERATION - 01 - 01

9200 Sorensen, Santa Fe Springs, CA 90670-2645 (213) 946-6561 ● Telex 69-8378 ● Fax 213-946-2265

SERIAL NO. 1466-1894

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OPERATION SECTION





COMPONENT IDENTIFICATION FIGURE 01