Condor Scissors Lift Rt48a 92258 Parts Book

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BOOM-SUPPORTED ELEVATING WORK PLATFORM

MODEL RT48A ARTICULATING

OPERATOR'S, MAINTENANCE, ILLUSTRATED PARTS, AND VENDOR MANUAL



SHIPPING ADDRESS

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BOOM-SUPPORTED ELEVATING WORK PLATFORM

MODEL RT48A ARTICULATING

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MODEL RT48A AERIAL WORK PLATFORM

OPERATOR'S MANUAL

CALAVAR CORPORATION

8300 IMPERIAL DRIVE WACO, TEXAS 76712 (817) 666-4545

> MANUAL 92258-001 AUGUST 1993

INTRODUCTION

The primary purpose of this manual is to provide the user with a thorough understanding of the proper operating procedures necessary to comply with the intended use of the CONDOR®. THIS MANUAL MUST BE RETAINED ON THE AERIAL WORK PLATFORM AT ALL TIMES.

Do not attempt to operate the CONDOR® until you have read and thoroughly understand all information provided in this manual. Familiarize yourself with the functions and operations of the upper and lower controls. A good understanding of the controls, their limitations, and capabilities, will maximize operating efficiency and safety. The various decals attached to this machine are <u>NOT</u> for decoration. They contain vital information....Read the decals <u>BEFORE</u> operating this machine.

It is YOUR RESPONSIBILITY to use safe practices and procedures while using the **CONDOR®**. The manufacturer of this unit does not control the wide range of applications that may be used in carrying out a wide variety of jobs. Therefore, IT IS THE USER'S RESPONSIBILITY to consider the safety of all personnel when making decisions regarding the unit's intended use.

It is also YOUR RESPONSIBILITY to understand and obey all federal, state, and local statutes and regulations pertaining to the safe operation and use of aerial work platforms. A copy of the ANSI/SIA A92 Manual of Responsibilities is attached for your use.

Calavar Corporation reserves the right to modify, improve, add, and/or delete certain design features on its products without any obligation to incorporate new features into products previously sold. Our manuals are continually updated to reflect these changes.

DO NOT ALTER OR MODIFY THIS UNIT WITHOUT PRIOR WRITTEN APPROVAL FROM THE MANAGEMENT OF CALAVAR CORPORATION!!

SERVICE & MAINTENANCE

Many of the parts used in the manufacture of the CONDOR® have specific properties, and Calavar Corporation recommends that replacement parts be purchased through it to ensure the original integrity of its products. Repairs and adjustments should only be made by trained and qualified personnel. Please refer to the Owner's Service Manual for information on service and maintenance of the CONDOR®.

INTRODUCTION

The primary purpose of this manual is to provide the user with a thorough understanding of the proper operating procedures necessary to comply with the intended use of the CONDOR[®], and to provide the information necessary to maintain and service the CONDOR[®].

THE OPERATOR'S MANUAL MUST BE RETAINED ON THE CONDOR® AT ALL TIMES.

Do not attempt to operate or service the CONDOR® until you have read and understood all information provided in this manual. Familiarize yourself with the functions and operations of the upper and lower controls. A good understanding of the controls, their limitations, and their capabilities will maximize operating efficiency. The various decals attached to this CONDOR® also contain vital operational instructions. Read the decals before operating this CONDOR®.

It is YOUR RESPONSIBILITY to follow procedures while operating the CONDOR[®]. The manufacturer of this CONDOR[®] cannot control the wide range of applications that may be used in carrying out a variety of jobs. Therefore, it is THE USER'S RESPONSIBILITY to consider all personnel when making decisions regarding the CONDOR[®]'s intended use.

It is also YOUR RESPONSIBILITY to understand and obey all federal, state, and local regulations regarding the operation and use of aerial work platforms. A copy of the ANSI/SIA Manual of Responsibilities is attached for your use: ANSI/SIA A92.5-1992 is provided for Boom-Supported Elevating Work Platforms, and ANSI/ SIA A92.6-1990 is provided for Self-Propelled Elevating Work Platforms.

TIME CONDOR Corporation reserves the right to modify, improve, add, and/or delete certain design features of its products without any obligation to incorporate new features into products previously sold. Our manuals are continually updated to reflect these changes.

DO NOT ALTER OR MODIFY THIS CONDOR® WITHOUT PRIOR WRITTEN APPROVAL FROM THE MANAGEMENT OF THE TIME CONDOR Corporation.

SERVICE & MAINTENANCE

Many of the parts used in the manufacture of the CONDOR® have specific properties, and the manufacturer recommends that replacement parts be purchased through the TIME CONDOR Corporation in order to ensure the original integrity of the product. Repairs and adjustments should only be made by trained and qualified personnel. Please refer to the maintenance and parts sections of the TIME CONDOR Corporation Operation, Maintenance, & Parts Manual for information on service and maintenance of the CONDOR®.

NOTE: Please refer to the TIME CONDOR Corporation Parts section of the Operation, Maintenance, & Parts Manual for information pertaining to your CONDOR®.



CONDOR® SERVICE INFORMATION

1. If you need assistance or have any service or maintenance questions, TIME CONDOR Corporation service and parts personnel are always available by phone or fax. The telephone numbers are:

> (254) 420-5200 Telephone (254) 420-5298 Voice Mail (800) 443-5803 FAX

- 2. There are numerous written Maintenance Procedures available for this machine. These procedures are available through the TIME CONDOR Corporation Service Department to anyone who requests them.
- 3. Service and maintenance are not a substitute for trained, qualified service technicians. TIME CONDOR Corporation conducts service schools on a continuing basis. Call any of our service or sales persons for a schedule. Remember, training of mechanics is the responsibility of their employer, but TIME CONDOR Corporation. Service Schools help you provide this training.
- 4. TIME CONDOR Corporation Service School Training Manuals are available for purchase through the parts department. The part numbers for these manuals are: #92333 for self-propelled models; and #92334 for truck-mounted models.

TIME CONDOR Corporation

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IMPORTANT: A COPY OF THE ANSI/SIA A 92.5 - 1992 MANUAL OF RESPONSIBILITIES IS ATTACHED TO THIS OPERATOR'S MANUAL. IT CONTAINS IMPORTANT OPERATING INFORMATION FOR THIS MACHINE. READ BEFORE OPERATING THIS MACHINE.

I. <u>PREPARATION, INSPECTION &</u> <u>MAINTENANCE</u>

THE CONDITION OF THE UNIT IS VERY IMPORTANT AS IT DIRECTLY AFFECTS THE OPERATOR'S SAFETY AS WELL AS THE SAFETY OF OTHERS. THE OPERATOR MUST PERFORM A THOROUGH WALK AROUND INSPECTION EACH DAY PRIOR TO OPERATING THE MACHINE. ANY DAMAGE OR FAULTY OPERATION SHOULD BE RE-PORTED IMMEDIATELY. A DO NOT OPER-ATE TAG OUTLINING THE PROBLEM SHOULD BE ATTACHED TO THE LOWER CONTROL STATION KEY SWITCH AND ANY DISCREPANCIES SHOULD BE CORRECTED BEFORE OPERATING THE CONDOR®.

KNOW THE UNIT AND ITS CAPABILITIES. REPORT ANY UNUSUAL OPERATION; ERRATIC SWAY OR MOTION OF THE BOOM, ARMS OR PLATFORM.

SOME MAJOR AREAS TO CHECK DAILY ARE:

A. OVERALL MACHINE CONDITION

TIRES AND WHEELS - CHECK FOR PROPER TIRE PRESSURE; CRACKS, TEARS OR CUTS; MISSING OR LOOSE LUG NUTS (A RUST LINE RUNNING DOWN THE RIM FROM THE LUG NUT INDICATES A LOOSE LUG NUT).

MISSING, BROKEN OR DAMAGED PARTS -CHECK CYLINDER MOUNTING PINS, PIVOT PINS, PIN RETAINERS, WEARPADS, BOLTS AND NUTS.

STRUCTURAL - CHECK FOR DAMAGE OR CRACKED WELDS ON STRUCTURAL COM-PONENTS; BOOM, ARMS, PLATFORM, SKIRT, CHASSIS.

STEERING - CHECK TIE ROD ENDS AND STEERING CYLINDER FOR PROPER AND

SECURE MOUNTING.

RING GEAR - CHECK FOR BROKEN TEETH; ALL MOUNTING BOLTS AND LOCK TABS ARE SECURELY IN PLACE.

DECALS - ALL DECALS AND WARNING SIGNS ARE IN PLACE AND CLEARLY LEGI-BLE.

CAUTION: DEFECTIVE COMPONENTS, STRUCTURAL DAMAGE, MISSING PARTS OR EQUIPMENT MALFUNCTIONS JEOPARDIZE THE SAFETY OF THE OPERATOR AND OTH-ER PERSONNEL, AND CAUSE EXCESSIVE DAMAGE TO THE UNIT. A POORLY MAIN-TAINED MACHINE COULD BECOME THE GREATEST OPERATIONAL HAZARD YOU MAY ENCOUNTER.

B. LOWER CONTROL STATION

CHECK ELECTRICAL WIRES AND CABLES FOR LOOSE, BROKEN OR FRAYED WIRES.

ALL FUNCTIONS OPERATE PROPERLY, CONTROLS RETURN FREELY TO NEUTRAL, CENTER POSITION.

C. PLATFORM & UPPER CONTROL STATION

CHECK ELECTRICAL WIRES AND CABLES FOR LOOSE, BROKEN OR FRAYED WIRES.

SLIDE BAR IS IN PLACE AT ACCESS OPEN-ING AND MOVES FREELY.

FOOT SWITCH OPERATES PROPERLY, GUARD IS IN PLACE AND THE UNIT IS SE-CURED TO THE PLATFORM FLOOR.

RECHECK THE STRUCTURAL CONDITION OF THE PLATFORM; PIVOT POINTS, PINS, RAILINGS, FLOOR. CHECK RED BUTTON - IT DISCONNECTS POWER TO THE CONTROLS AND STOPS THE OPERATION OF ALL FUNCTIONS.

CHECK AUXILIARY LOWERING; PUMP OR VALVES ON BOOM AND ARM LIFT CYLIN-DERS.

D. HYDRAULIC SYSTEM

CHECK THE HYDRAULIC TANK FLUID LEVEL WITH THE BOOM AND ARMS LOWERED PLUS BOOM RETRACTED. MAINTAIN THE FLUID LEVEL TO THE MARK ON THE SIGHT GLASS. ADD ONLY SHELL TELLUS T32 HYDRAULIC OIL TO THE SYSTEM. ENSURE THE BREATHER CAP IS IN GOOD CLEAN CONDITION AND IN PLACE ON THE TANK.

CHECK FOR HYDRAULIC LEAKS AT FITTINGS, VALVES AND CONTROLS.

CHECK ALL HYDRAULIC HOSES AND TUBES FOR DAMAGE, KINKS, AND PROPER ROUT-ING TO AVOID PINCH POINTS.

E. MULTI-AXIS SLOPE SENSOR

CHECK THE GENERAL CONDITION OF THE SLOPE SENSOR - NO LOOSE OR DAMAGED WIRES, SECURELY MOUNTED, HOUSING NOT CRACKED OR BROKEN.

TEST THE SLOPE SENSOR - WITH THE BOOM OFF THE LIMIT SWITCH (RAISED APPROXIMATELY ONE FOOT) AND THE KEY SWITCHED TO "ON" POSITION AND WITH THE FOOT SWITCH DEPRESSED, THE ALARM SHOULD SOUND WHEN THE SLOPE SENSOR IS PUSHED (TILTED) TO ONE SIDE.

F. BATTERY

CHECK BATTERY ELECTROLYTE LEVEL.

ENSURE ALL CAPS ARE PRESENT AND TIGHT ON THE BATTERIES.

ALL BATTERY CABLE CONNECTIONS SHOULD BE TIGHT AND CLEAN.

II. MACHINE OPERATION

A. RATED WORK LOAD

THE CONDOR® MODEL RT48A HAS AN UN-RESTRICTED WORK LOAD RATING OF 500 LBS. (226.8 kg) OR TWO OCCUPANTS. THIS MEANS THAT THE PLATFORM WILL SUP-PORT A 500 LB. COMBINED WEIGHT, IN-CLUDING PERSONNEL, THEIR TOOLS AND EQUIPMENT, THROUGHOUT THE WORKING ENVELOPE OF THE MACHINE.

B. LOWER CONTROLS

THE LOWER CONTROL STATION IS LOCAT-ED ON THE TURRET OF THE MACHINE. FROM THIS STATION ALL MACHINE FUNC-TIONS CAN BE PERFORMED EXCEPT DRIVE AND STEER.

THE MAIN KEY SWITCH IS LOCATED ON THE LOWER CONTROL BOX. WITH THE KEY IN THE "OFF" POSITION THE UNIT IS OFF AND ALL POWER IS DISCONNECTED. WITH THE KEY IN THE FAR RIGHT "ON" POSITION THE UNIT CIRCUIT IS ENERGIZED. THE RED BUTTON ON THE LOWER CONTROL BOX MUST BE UP OR IN THE "ON" POSITION AND THE RED BUTTON IN THE UPPER CONTROL BOX MUST BE UP OR IN THE "ON" POSITION TO START UNIT (AS THEY ARE WIRED IN THE STARTER CIRCUIT IN SERIES). WITH THE UNIT KEY SWITCH "ON" AND BOTH RED BUTTONS UP OR "ON" USE "START" TOG-GLE SWITCH TO START ENGINE, USE "CHOKE" TOGGLE SWITCH IF NEEDED (BOTH LOCATED ON LOWER CONTROL BOX). ONCE UNIT IS STARTED, DEPRESS "PUMP" BUTTON ON LOWER CONTROL BOX TO ENERGIZE LOWER CONTROLS. THIS PUMP BUTTON MUST BE CONTINUOUSLY DEPRESSED WHILE OPERATING ANY OF THE FUNCTIONS FROM THE GROUND STA-TION.

ALSO LOCATED ON THE LOWER CONTROL BOX IS THE AUXILIARY POWER BUTTON. DEPRESS THIS BUTTON CONTINUOUSLY (NOTE IF ENGINE IS RUNNING, IT WILL SHUT DOWN) AND USE FUNCTIONS TO MANUEVER AND LOWER PLATFORM IN CASE OF PRIMARY POWER FAILURE.

ADJACENT TO THE LOWER CONTROL BOX ARE FOUR (4) LEVERS THAT CONTROL THE LIFT FUNCTIONS OF THE **CONDOR®** FROM LEFT TO RIGHT THE CONTROLS ARE: ARM LIFT / LOWER; BOOM EXTEND / RETRACT; TURRET ROTATION; AND BOOM LIFT / LOW-ER.

THE LIFT FUNCTIONS CORRESPOND DI-RECTLY TO THE MOVEMENT OF THE CON-TROL SWITCHES IN THE DIRECTION INDI-CATED ON THE OPERATION DECAL AT THE CONTROL STATION.

NOTE: THE CONDOR® IS NOT EQUIPPED WITH CONTINUOUS ROTATION. WITH THE COUNTERWEIGHT OVER THE DRIVE WHEELS THE TURRET CAN BE ROTATED 180° IN EITHER DIRECTION, UNTIL THE STOP IS REACHED. AT THIS POINT THE TURRET MUST BE ROTATED IN THE OPPO-SITE DIRECTION.

C. UPPER CONTROLS

THE UPPER CONTROL CONSOLE PROVIDES FOR COMPLETE OPERATION OF THE MA-CHINE. AS A SAFETY PRECAUTION THE FOOT SWITCH MUST BE DEPRESSED AND HELD DURING ALL FUNCTION OPERATIONS.

THE UPPER CONTROL BOX IS EQUIPPED WITH A RED SWITCH WHICH SERVES AS AN EMERGENCY STOP SWITCH TO STOP ALL MOVEMENT. ON ENGINE EQUIPPED UNITS, IT WILL STOP THE ENGINE.

IF THE UNIT IS EQUIPPED WITH AN ENGINE, THE UPPER CONTROL BOX WILL CONTAIN AN ENGINE START SWITCH AND, IF APPLI-CABLE, A CHOKE SWITCH AND DUAL FUEL SELECTOR SWITCH.

ALSO CONTAINED IN THIS CONTROL BOX IS THE DRIVE SPEED SELECTOR SWITCH WHICH ALLOWS THE OPERATOR TO SE- LECT FAST OR SLOW DRIVE SPEED. THE DRIVE AND STEER CONTROLLER IS LOCAT-ED TO THE RIGHT OF THE CONTROL BOX. FOR INFORMATION ON DRIVING & STEER-ING THE **CONDOR®** SEE 2E OF THIS SEC-TION.

DIRECTLY IN FRONT OF THE CONTROL BOX ARE FIVE (5) LEVERS THAT CONTROL THE LIFT FUNCTIONS OF THE MACHINE. FROM LEFT TO RIGHT THEY ARE: ARM LIFT / LOWER, BOOM EXTEND / RETRACT, PLAT-FORM TILT, TURRET ROTATION, BOOM LIFT / LOWER.

THE AERIAL FUNCTIONS CORRESPOND DIRECTLY TO THE MOVEMENT OF THE CONTROL LEVERS IN THE DIRECTION INDI-CATED ON THE OPERATION DECAL LOCAT-ED AT THE CONTROL STATION.

THE PLATFORM ON THE CONDOR® MODEL RT48A WILL MAINTAIN WHATEVER ATTITUDE IT IS SET AT THROUGHOUT ITS OPERA-TIONAL ENVELOPE. IF THE PLATFORM IS SET HORIZONTAL TO THE GROUND WITH THE BOOM IN THE HORIZONTAL POSITION, IT WILL REMAIN "LEVEL" AS THE BOOM AND/OR ARMS ARE RAISED AND LOWERED.

THE CONDOR® IS ALSO EQUIPPED WITH A HAND OPERATED ROTATING PLATFORM. TO ROTATE THE PLATFORM TURN THE HANDLE LOCATED ON THE RIGHT HAND SIDE OF THE SKIRT, JUST BELOW THE CONTROL STATION.

MOUNTED ON THE TURRET OF THE MA-CHINE IS A SLOPE SENSOR WHICH IS WIRED THROUGH A LIMIT SWITCH CON-TROLLED BY CONTACT WITH THE BOOM LIFT CYLINDER. WHEN THE MACHINE IS OPERATED FROM THE PLATFORM AND THE BOOM LIFT CYLINDER IS OFF OF THE LIMIT SWITCH THE SLOPE SENSOR IS ENER-GIZED. IF THE CONDOR® ENCOUNTERS A TILT CONDITION OF 5° THE SENSOR SOUNDS AN ALARM AND STOPS ALL OF THE LIFT FUNCTIONS. AT THIS POINT DRIVE THE CONDOR® BACK ONTO FIRM,

LEVEL GROUND.

ALSO LOCATED ON THE UPPER CONTROL BOX IS THE AUXILIARY POWER BUTTON. DEPRESS THE BUTTON CONTINUOUSLY (IF THE ENGINE IS RUNNING, IT WILL SHUT DOWN) AND USE FUNCTIONS TO MANEU-VER AND LOWER PLATFORM IN CASE OF PRIMARY POWER LOSS (NOTE: FOOT-SWITCH MUST BE DEPRESSED FOR AUXIL-IARY POWER TO FUNCTION).

D. PLATFORM OVERLOAD SYSTEM

THIS MACHINE IS EQUIPPED WITH A PLAT-FORM OVERLOAD SYSTEM. IF THE LOAD ON THE PLATFORM EXCEEDS 500 LBS. (2268 kg), ALL CONTROL FUNCTIONS WILL BE INOPERABLE. CONTROL CAN BE RE-STORED BY REDUCING THE PLATFORM LOAD BELOW 500 LBS.

E. TRAVEL

DRIVING THE MACHINE CAN ONLY BE AC-COMPLISHED FROM THE PLATFORM, WITH THE BOOM IN EITHER THE RAISED OR STOWED (LOWERED) POSITION. EVEN THOUGH THE GRADEABILITY OF THE UNIT IS 2WD 16° (28%) 4WD 18° (32%), THIS SHOULD ONLY BE NEGOTIATED WITH THE BOOM IN THE FULLY STOWED (LOWERED) POSITION AND IN SLOW SPEED. THE CON-DOR® IS DESIGNED TO TRAVEL WITH THE PLATFORM ELEVATED ONLY ON FIRM, LEVEL GROUND.

THE CONDOR® IS DESIGNED TO BE NOR-MALLY DRIVEN WITH THE COUNTERWEIGHT POSITIONED OVER THE STATIONARY AXLE. IN THIS CONFIGURATION THE DIRECTION OF TRAVEL CORRESPONDS DIRECTLY TO THE DIRECTION OF MOVEMENT OF THE DRIVE CONTROLLER. FOR EXAMPLE, MOV-ING THE CONTROLLER. FOR EXAMPLE, MOV-ING THE CONTROLLER AWAY FROM THE OPERATOR DRIVES THE UNIT FORWARD, WHILE MOVING THE CONTROLLER TO-WARDS THE OPERATOR MOVES THE UNIT IN REVERSE.

THE STEERING CONTROL IS A SPRING LOADED, RETURN TO CENTER, ROCKER SWITCH LOCATED ON THE TOP OF DRIVE CONTROL HANDLE. WITH THE COUNTER-WEIGHT OVER THE DRIVE WHEELS THE STEERING CORRESPONDS DIRECTLY TO THE DIRECTION THE ROCKER SWITCH IS PUSHED. FOR EXAMPLE, PUSHING THE ROCKER SWITCH TO THE LEFT TURNS THE UNIT TO THE LEFT, WHILE PUSHING THE SWITCH TO THE RIGHT TURNS THE MA-CHINE TO THE RIGHT. WHEN THE SWITCH IS RELEASED AND RETURNS TO THE CEN-TER POSITION, THE STEERING WHEELS REMAIN IN THE DIRECTED LINE OF TRAVEL AND DO NOT RETURN TO A STRAIGHT LINE OF TRAVEL UNTIL MOVED AGAIN: STEERING IS NOT SELF-CENTERING.

WHENEVER THE MACHINE IS DRIVEN WITH THE COUNTERWEIGHT IN A POSITION OTHER THAN DESCRIBED, THE DRIVE AND STEER RELATIONSHIP TO THE CONTROL-LER WILL CHANGE. THE OPERATOR SHOULD MOVE THE UNIT SLOWLY UNTIL HE BECOMES FAMILIAR WITH THE CHANGE IN MOVEMENT.

ALWAYS LOOK IN THE DIRECTION OF TRAV-EL AND MAINTAIN A GOOD FIELD OF VIEW, PAYING PARTICULAR ATTENTION TO OVER-HEAD OBJECTS. AVOID JERKY MOVEMENT OF THE DRIVE CONTROLLER BY MOVING SMOOTHLY INTO AND OUT OF TRAVEL. COME TO A COMPLETE STOP BEFORE CHANGING DIRECTIONS.

THE BRAKES ON THE UNIT ARE SPRING APPLIED, HYDRAULICALLY RELEASED. THEY ARE AUTOMATICALLY RELEASED WHEN THE DRIVE CONTROLLER IS ACTIVATED AND APPLIED WHEN THE DRIVE CONTROL-LER IS RETURNED TO THE NEUTRAL POSI-TION. AVOID RELEASING THE DRIVE CON-TROLLER AT FULL SPEED AS THE UNIT WILL STOP ABRUPTLY CAUSING A SUDDEN MOVEMENT OF THE PLATFORM WHICH COULD RESULT IN PERSONNEL INJURY.

THE PLATFORM CONTROL BOX IS

EQUIPPED WITH A MAINTAINED TOGGLE SWITCH TO SELECT EITHER FAST OR SLOW TRAVEL SPEED. HOWEVER, WHEN THE BOOM OR ARMS ARE RAISED ENOUGH TO OPEN THE BOOM LIMIT SWITCH (APPROXI-MATELY HORIZONTAL) BOTH DRIVE SPEEDS ARE AUTOMATICALLY REDUCED BY HALF.

III. OPTIONAL EQUIPMENT

THE FOLLOWING OPTIONS ARE AVAILABLE ON THE **CONDOR®** MODEL RT48A AERIAL WORK PLATFORM:

- ROTATING BEACON
- MOTION WARNING HORN
- 110V LINE TO PLATFORM
- FOAM FILLED TIRES
- HOUR METER
- PLATFORM WORK LIGHTS
- HEAD & TAIL LIGHTS
- SELF CLOSING GATE
- AIRLINE TO PLATFORM
- WIRE MESH AROUND PLATFORM
- SPECIAL PAINT
- DUAL FUEL VAPOR KIT
- DUAL FUEL LIQUID KIT
- 4WD OPTION
- DEUTZ DIESEL ENGINE
- TRAVEL WARNING HORN
- BELT & LANYARD
- STROBE LIGHT
- KUBOTA DIESEL ENGINE
- OPTIONS CONFORM-ING TO OTHER NA-TIONAL STANDARDS

IV. AUXILIARY LOWERING

SEVERAL PROVISIONS ARE MADE TO AS-SIST THE OPERATOR SHOULD PRIMARY POWER BE LOST.

THE BOOM AND ARM LIFT CYLINDERS ARE EQUIPPED WITH GRAVITY LOWERING CAR-TRIDGES ON THE HOLDING VALVES. IN ORDER TO MANUALLY LOWER THE BOOM OR ARM TURN THE KNOB COUNTERCLOCK-WISE. THE LOWERING PROCESS CAN BE HALTED AT ANYTIME BY TURNING THE KNOB.

THE TURRET CAN BE MANUALLY ROTATED BY USING AUXILIARY PUMP AND FUNCTION. SEE SECTION 2B OF THIS MANUAL.

V. <u>MOVING FROM JOB SITE</u> TO JOB SITE

A. TOWING

THE BRAKES ON THE CONDOR® ARE AU-TOMATICALLY APPLIED WHEN THE DRIVE CONTROLLER IS RETURNED TO NEUTRAL. HOWEVER, FOR TOWING PURPOSES THE DRIVE HUBS CAN BE DISENGAGED BY REMOVING THE TWO (2) 1/4 - 20 x 3/4 BOLTS THAT SECURE THE DISCONNECT CAP. NEXT REMOVE THE DISCONNECT CAP AND REINSTALL IT WITH THE NIPPLE FACING INWARD. RESECURE THE CAP USING THE SAME 1/4 - 20 x 3/4 MOUNTING BOLTS. CAUTION: WHEN THE DRIVE HUBS ARE DISENGAGED, THE BRAKES ARE ALSO DISENGAGED.

B. TRANSPORTING

THE CONDOR® MODEL RT48A WEIGHS APPROX. 13,500 LBS. WHATEVER MEANS (RAMP, CRANE, ETC.) IS USED TO LOAD/ UNLOAD THE CONDOR® MUST BE OF SUFFICIENT STRENGTH TO WITHSTAND THE WEIGHT OF THE MACHINE.

WHEN USING A RAMP IT SHOULD BE SET AT AN ANGLE NO STEEPER THAN 16° OR 28% 2WD, AND 18° OR 32%.

THE NORMAL DRIVING POSITION OF THE CONDOR® IS WITH THE TURRET COUNTER-WEIGHT OVER THE STATIONARY AXLE, AND THE DRIVE AND STEER CONTROLLER MOVEMENT IS BASED ON THIS CONFIGU-RATION. WHEN THE COUNTERWEIGHT IS

OVER THE STEERING WHEELS THE RELA-TIONSHIP BETWEEN THE MOVEMENT OF THE DRIVE AND STEERING CONTROLLER AND THE MOVEMENT OF THE MACHINE WILL BE REVERSED. TRY EACH CONTROL BEFORE APPROACHING THE RAMP TO ORIENT YOURSELF WITH THE DIRECTION OF TRAVEL. BEFORE DRIVING THE UNIT ON THE RAMP TEST ALL OF THE CONTROLS AND THE BRAKING SYSTEM. MAKE SURE THE CONTROLS RETURN SMOOTHLY TO THE CENTER. NEUTRAL POSITION. MOVE THE CONDOR® SLOWLY BACK AND FORTH AND ENSURE THAT THE BRAKES APPLY EACH TIME THE DRIVE CONTROLLER IS RETURNED TO THE CENTER, NEUTRAL POSITION.

IT MAY BE NECESSARY TO ELEVATE THE BOOM OR LIFT ARMS TO CLEAR THE GROUND OR RAMP AS YOU LOAD THE UNIT. THE UNIT IS EQUIPPED WITH A SLOPE SENSOR THAT SENSES AN OUT OF LEVEL CONDITION. WHEN THE ARM OR BOOM IS RAISED OFF OF THE LIMIT SWITCH AND A CONDITION OF 5° OUT OF LEVEL IS ENCOUNTERED A WARNING ALARM WILL SOUND. AT THIS POINT NO FUNCTIONS OTHER THAN DRIVE AND STEER WILL BE AVAILABLE TO THE OPERA-TOR.

MOVE THE UNIT ON THE TRUCK OR TRAIL-ER, UP OR DOWN THE RAMP, SLOWLY, ALLOWING TIME FOR STEERING CORREC-TIONS TO BE MADE. KEEP THE UNIT IN ALIGNMENT WITH THE RAMP AND CARRIER DURING LOADING OR UNLOADING OPERA-TIONS.

THE CONDOR® AERIAL WORK PLATFORM CAN EASILY AND SAFELY BE TRANSPORT-ED FROM SITE TO SITE BY FOLLOWING A FEW SIMPLE PROCEDURES:

BLOCK ALL WHEELS TO PREVENT FOR-WARD AND REVERSE MOVEMENT DURING TRANSPORTATION.

TIE DOWN THE CONDOR® USING CHAINS,

STRAPS OR CABLES OF SUFFICIENT STRENGTH. SEE THE TRANSPORTING DIAGRAM ON EACH SIDE OF THE CHASSIS.

SET THE PLATFORM ON WOODEN PALLETS AND TIE THE BOOM DOWN NEAR THE SKIRT.

TURN THE POWER OFF AT THE KEY SWITCH AND REMOVE THE KEY.

VI. EMERGENCY STOPPING

AS STATED BEFORE, THE BUTTON CAN BE USED IN AN EMERGENCY TO STOP MOVE-MENT FROM EITHER THE LOWER OR UPPER POSITION. ALSO, THE FOOT SWITCH CAN BE USED TO PANIC STOP ANY FUNCTION, INCLUDING DRIVE, SIMPLY BY TAKING YOUR FOOT OFF OF IT.



Component Identification

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PRE-OPERATION INSPECTION

The CONDITION of the RT48A prior to start up is a very IMPORTANT factor as it directly affects the operator's SAFETY. It should be a common practice that the operator performs a general inspection before each day's operation of the work platform.

"he purpose of the operator's inspection is to keep the CONDOR® in PROPER working condition and to DETECT any sign of Infunction during normal operations between scheduled maintenance checks.

DOWNTIME is COSTLY and can be prevented by taking a few minutes prior to start-up. A thorough walk-around inspection must be performed each day before the CONDOR® is operated. Report damage or faulty operation immediately. Attach a sign at the ground control area stating DO NOT OPERATE. Repair any discrepancies before use. Some of the major items to check are:

1. OVERALL MACHINE CONDITION

- A. Ground / platform controls Controls return to neutral (center) when not actuated.
- B. Hydraulic leaks.
- C. Electrical system for frayed or broken wires or loose connections.
- D. Missing, broken or damaged parts, pin retainers, bolts and nuts.
- E. External structural damage, or cracked welds.
- F. Condition of tires pits, tears, cracks or cuts.
- G. Steering connections, tie rod, cylinder.
- H. Wheel lug nuts missing or loose.
- I. Decais, placards, warning signs.
- J. Proper tire pressure (45 psi).
- K. Boom pivots, pin areas, wearpads, cylinder.
- L. Check bolts securing ring gear to chassis and turret for tightness and that all lock tabs are in place.

2. PLATFORM

- A. Pivot points, connections.
- B. Structural condition damaged railings, flooring.
- C. Control box electrical wiring for frayed or broken wires, damaged components, hoses, loose connections.
- D. Access opening, slide bar freely moves.
- E. Foot switch and guard.

3. BATTERY

- A. Electrolyte level all caps present.
- B. Cables and connections ground connection.
- C. Battery hold down.
- 4. ENGINE
 - A. Fuel level.
 - B. Oil level.
 - C. Mounting.
 - D. Check for fuel, oil leaks.

5. HYDRAULIC SYSTEM

- A. Hydraulic leaks.
- B. Loose or damaged hoses, tubing.
- C. Fluid level, hydraulic tank breather cap. Refill only with Shell Tellus T32 Hydraulic Fluid.
- D. Hydraulic valves and control levers.
- E. Cleanliness of hydraulic fluid non-milky, bright in color.

6. MULTI-AXIS 5° SLOPE SENSOR

- A. General condition.
- B. Loose or damaged wires.
- C. Push to test. Moveable on mounting.
- D. Warning buzzer in platform is operable.

FEATURES

Articulating / Telescoping Design	Full Pressure Hydraulic Control
Allows worker to reach up and over obstacles.	Smooth operation with reduction in maintenance costs.
Full 24' Side Reach at 27' Working Height	Heavy Duty Construction
Greater work area without need to move unit.	Built to last - gives operator added sense of security.
Safety Yellow	Zero Tail Swing
Increases awareness of unit to others - improves safety.	Enables Operator to work in tight areas.
Super Large Tires	12 Inch Ground Clearance
Provides flotation in all terrain.	Easily moves over rough terrain.

SPECIFICATIONS

RT48A	English	Metric	
Working Height	48 ft.	15 m	-1.5 M 0 M 1.5 M 3.0 M 4.5 M 6.0 M 7.0 M 9.1 M
Platform Height	42 ft.	13 m	50 ft 15.2 M
Platform Capacity	500 lb.	227 kg	
Platform Size	60 in. x 30 in.	1.2 m x .8 m	45 ft 13.7 M
Up & Over Height	20 ft.	6.1 m	
Horizontal Reach	24 ft.	7.3 m	40 ft 12.1 M
Stowed Length	17 ft 9 ft.	5.4 m	
Width	6 ft 10 in.	2.0 m	35 ft 10.6 M
Stowed Height	7 ft 8 in.	2.3 m	
Tail Swing Beyond Chassis	Zero	Zero	Son W
Ground Clearance	12 in.	.32 m	25 ft 7.6 M
Outside Turning Radius	15 ft.	4.6 m	
Tires	15/38.5 - 16.5 LT		20 ft 6.0 M
Aross Weight	13,500 lbs.	61.23 kg	
Power Source	37 h.p.	27.2 kw	15 ft 4.5 M
Fuel Tank	34 US gal.	128.7 L	
Wheel Base	6 ft.	1.8 m	10 ft 3.0 M
Travel Speed	0 - 3 mph	0 - 4.8 kph	
Gradeability	28%	28%	Sit 1.5 M
Hydraulic Tank Capacity	39 US gal.	147.6 L	
Platform Rotation	180° Manual		
			-5 ft 0 5 ft 10 ft 15 ft 20 ft 25 ft 30 ft

Specifications subject to change without prior notice.

OPTIONS

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Head and Tail Lights	Hour Meter	Air Line to Platform
Motion / Movement Horn	Larger Platform	Diesel Engine
110V Line to Platform	Strobe Light	Foam Filled Tires
4-Wheel Drive - 32% Gradeability	Dual Fuel	Platform Lights

SOLD, RENTED & SERVICED BY:

Calavar Corporation

8300 Imperial Drive P. O. Box 21447 • Waco, Texas 76702-1447 (817) 666-4545 • Fax (817) 666-4544



EXTENDING MAN'S REACH







SELF-PROPELLED

AERIAL WORK PLATFORM

ARTICULATED

INSPECTION REPORT



Condor Scissors Lift Rt48a 92258 Parts Book

Full download: http://manualplace.com/download/condor-scissors-lift-rt48a-92258-parts-book/

CALAVAR CORPORATION

SELF-PROPELLED ARTICULATED AERIAL WORK PLATFORM CONDOR INSTALLATION AND INSPECTION REPORT

Dealer's Name		Address	
Model	Serial Number		Date

This CONDOR Aerial Lift was inspected and tested prior to leaving Calavar. Due to environmental conditions, loading, transporting, and unloading of the unit, it will be necessary to perform the following inspection.

This report, when complete, must be returned to Calavar Corporation, P.O. Box 21447, Waco, TX 76702-1447 within 45 days of receipt of unit to set up the warranty account. This does not necessarily start warranty, but helps insure that we take timely action on any problem with your aerial work platform.

Item No.	o. Description of Inspection or Test		Initial If O.K.	Remarks:
1.	GENERAL APPEARANCE			
	A.	Visual Damage		
	в.	Fluid leaks		
	C.	Paint damage		
	D.	Decals for proper installation		
	E.	Visual inspection of all welds		
	F.	Pins and retainers		
	G.	Security hoses and fittings		
2.	CAF	RIAGE		
	Α.	Covers and fasteners		
	в.	Steering knuckle - security		
	C.	Tie rod - security		
	D.	Steer cylinder - leaks/security		
	Ε.	Tire condition		
	F. •	Lug nuts/torque		
	G.	Tire pressure (see decal)		
	Н.	Hydraulic leaks		
	١.	Hydraulic fluid level/clarity		
	J.	Wiring security (open boxes)		
3.	ENG	INE SERVICING - (IF APPLICABLE)		
	Α.	Engine oil level		
	В.	Throttle solenoid and linkage/adjustment		
	<u>C.</u>	Choke solenoid and linkage/adjustment		
	D.	Charge system/operation		
	E.	Fuel tank		· · · · · · · · · · · · · · · · · · ·
	F.	Battery condition/level of charge		
		1. Electrolyte level		
		2. Terminal security		

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