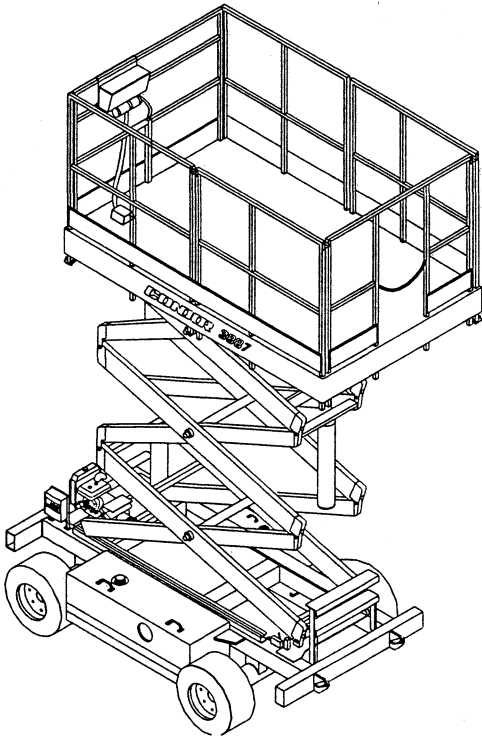




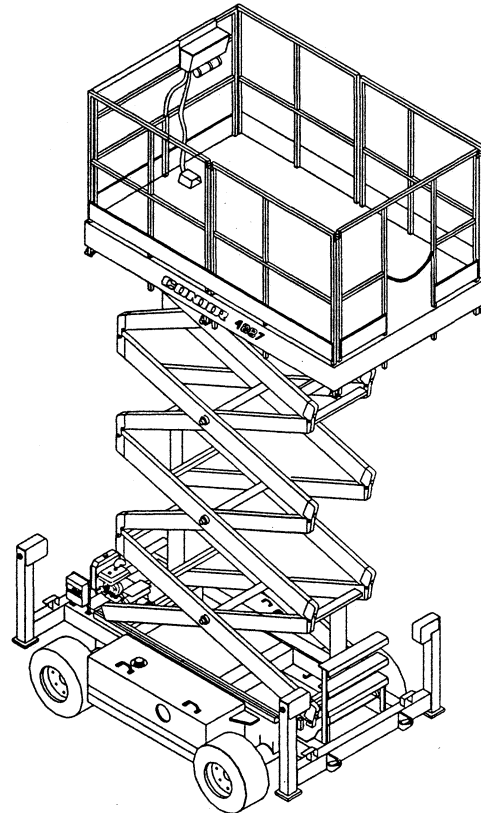
**SELF-PROPELLED  
ELEVATING WORK PLATFORM**

**MODELS 3887G/4887G**

**OPERATOR'S MANUAL**



**3887G**



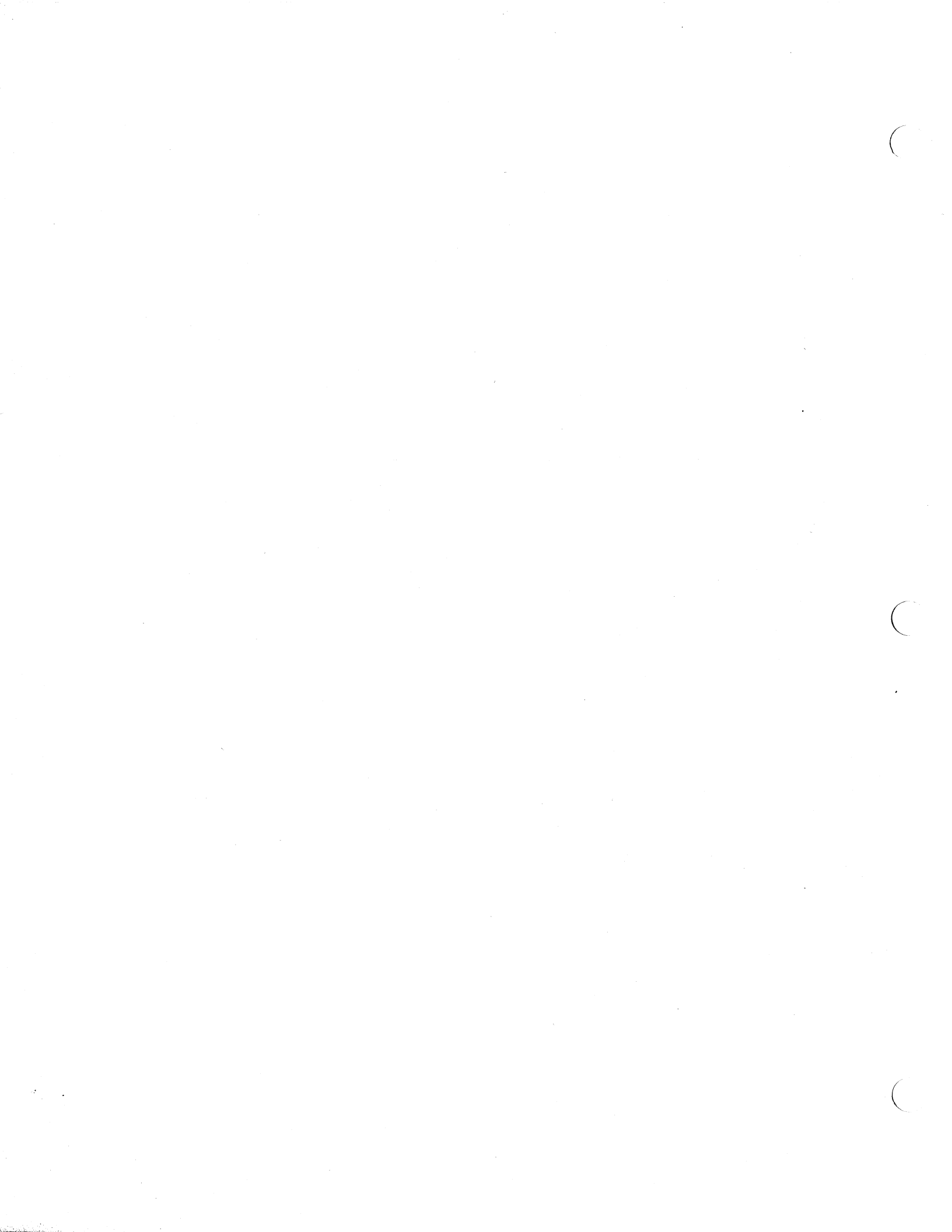
**4887G**

**SHIPPING ADDRESS**

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

**MAILING ADDRESS**

**CALAVAR CORPORATION**  
P. O. Box 21447  
WACO, TEXAS 76702-1447  
(817) 666-4545



# 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.

Calavar 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 CALAVAR 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 Calavar 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 Calavar Operation, Maintenance, & Parts Manual for information on service and maintenance of the CONDOR®.

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



## CONDOR® SERVICE INFORMATION

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

(817) 666-4545 Telephone  
(817) 666-5125 Voice Mail  
(800) 443-5803 FAX
2. There are numerous written Maintenance Procedures available for this machine. These procedures are available through the Calavar Service Department to anyone who requests them.
3. Service and maintenance are not a substitute for trained, qualified service technicians. Calavar 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 Calavar Service Schools help you provide this training.
4. Calavar 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.

CALAVAR CORPORATION

# OPERATOR'S MANUAL

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**ANSI/SIA 92.6 - 1990 MANUAL OF RESPONSIBILITIES**

**IMPORTANT: A COPY OF THE ANSI/SIA 92.6 - 1990 MANUAL OF RESPONSIBILITIES IS ATTACHED TO THIS OPERATOR'S MANUAL. IT CONTAINS IMPORTANT OPERATING INFORMATION FOR THIS CONDOR®. READ BEFORE OPERATING THIS CONDOR®.**

**I. PREPARATION, INSPECTION, AND MAINTENANCE**

Before putting the CONDOR® into service, all personnel must receive proper training and instruction regarding the operation, service, and maintenance of the CONDOR®. All operators and maintenance personnel should read and understand all portions of the operator's manual and should follow all procedures for the proper operation of all functions and controls.

The condition of the CONDOR® is very important, as it directly affects the operator as well as others. Defective components, structural damage, missing parts, and malfunctioning equipment jeopardize all personnel and may cause excessive damage to the CONDOR®. A poorly maintained CONDOR® could become the greatest occupational hazard you may encounter.

The operator must perform a thorough walk-around inspection each day prior to operating the CONDOR®. Any damage or faulty operation should be reported immediately. A **DO NOT OPERATE** tag outlining the problem should be attached to the lower control station and any discrepancies should be corrected before operating the CONDOR®.

More detailed inspections should be performed at the intervals specified in this Operator's Manual, and after any components have been repaired or replaced.

**KNOW THE CONDOR® AND ITS CAPABILITIES. REPORT ANY UNUSUAL OPERATION, SUCH AS ERRATIC SWAY OR MOTION OF THE ARMS OR PLATFORM.**

The daily inspection of the CONDOR® should include the following:

**A. OVERALL MACHINE CONDITION**

**TIRES AND WHEELS:**

- Inspect for proper tire pressure, cracks, tears, cuts, or 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:**

- Inspect cylinder mounting pins, pivot pins, pin retainers, wear pads, bolts, nuts, and washers.

**STRUCTURAL CONDITION:**

- Inspect for structural damage or cracked welds on all structural components, paying particular attention to major structural groups (arms, platform, chassis).

**STEERING:**

- Inspect tie rod ends and steering cylinder for proper and secure mounting.

**DECALS:**

- Be sure that all instructional and cautionary decals are in place and are clearly legible.

**B. LOWER CONTROL STATION**

- Inspect electrical installations for loose, broken, or frayed wires and cables.
- Verify that all functions operate properly and that controls return freely to center (neutral position) when actuated and released.

### C. PLATFORM & UPPER CONTROL STATION

- Inspect electrical installations for loose, broken, or frayed wires and cables.
- Verify that entry point bars and chains are functional and secure.
- Verify that footswitch operates properly and that guard is in place.
- Re-check the structural condition of the platform, paying close attention to pins, railings, and floor.
- Check the red stop button—its purpose is to disconnect power to the controls in an emergency.
- Verify that all control levers return freely to center (neutral position) when actuated and released.

### D. HYDRAULIC SYSTEM

- Check the hydraulic tank fluid level with the arms lowered. Maintain a full level of fluid—to the mark on the dipstick or sight glass (if equipped), or within one inch of the top of the tank. Add Shell Tellus T-32 Hydraulic Oil if required.
- Verify that the breather cap is clean, undamaged, and properly installed on the hydraulic tank.
- Check for leaks at all fittings, valves, and controls.
- Check all hydraulic hoses and tubes for damage or kinks, and ensure proper routing to avoid pinch points.

### E. BATTERIES

- Check battery electrolyte level, and ensure that all caps are present and tight on batteries.
- Inspect all battery cable connections for security and cleanliness.

### II. RATED WORK LOAD

The rated work loads of the CONDOR® are as follows: Models 3887G—2,000 lbs. (908 kg.); Model 4887G—1,500 lbs. (681 kg.). The platform will support a combined weight equal to the CONDOR®'s rated work load, which includes personnel, tools, and equipment, throughout the working envelope of the CONDOR®.

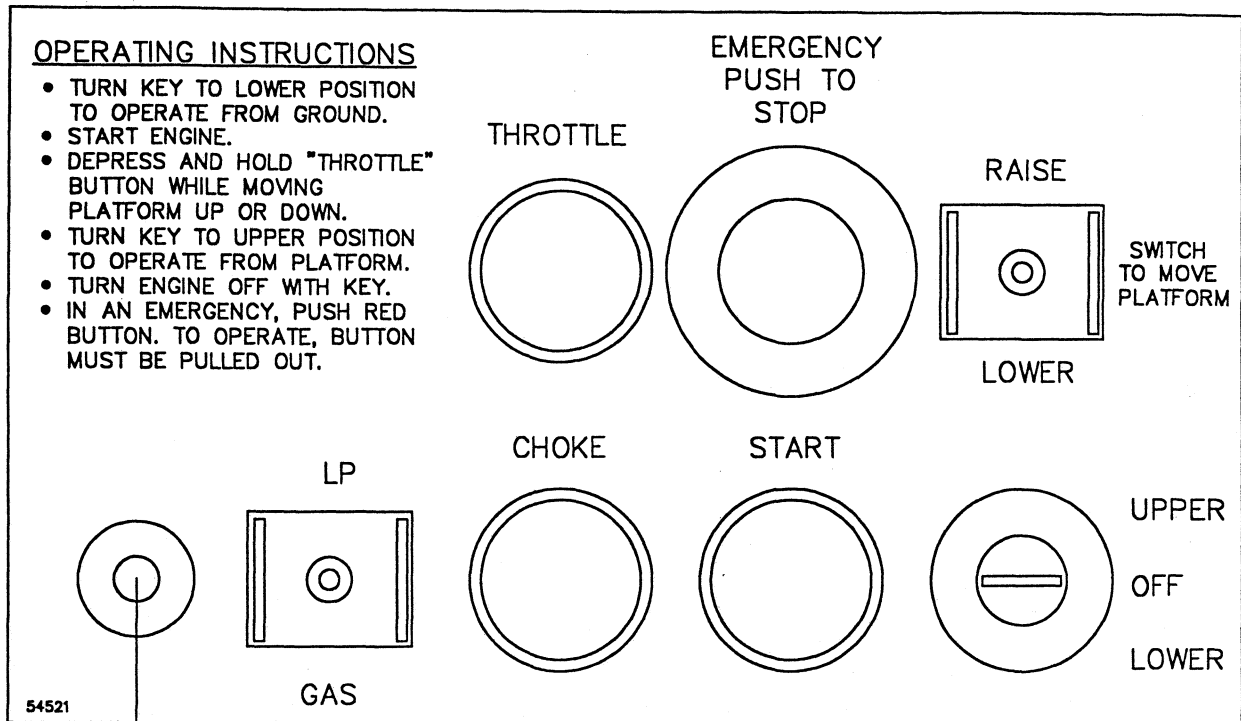
### III. OPTIONAL EQUIPMENT

The following options are available on CONDOR® Models 3887G, and 4887G:

- FORWARD—REVERSE DRIVE ALARM
- MOTION/MOVEMENT ALARM
- STROBE LIGHT
- 5° MULTI—AXIS SLOPE ALARM
- HYDRAULIC STABILIZERS (3887G)
- 110-V EXTENSION TO PLATFORM
- DIESEL ENGINE (HATZ 2M40Z)
- LP/GAS DUAL FUEL (VAPOR)
- LP/GAS DUAL FUEL (LIQUID)
- SINGLE SPCL PAINT COLOR-ENAMEL
- FOAM-FILLED TIRES
- 4-WHEEL DRIVE
- HOUR METER
- ADDITIONAL OPR/SVC/PRTS MANUAL

#### IV. LOWER CONTROLS

The lower controls are located on the chassis, adjacent to the engine, to operate all functions except DRIVE and STEER. The lower controls are as follows:



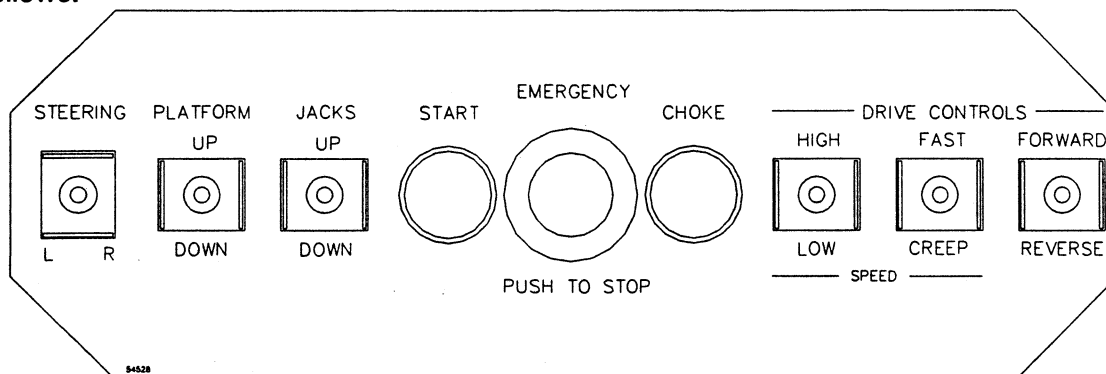
[CIRCUIT BREAKER]

- **THROTTLE:** This pushbutton switch brings the engine to operating speed, and must be depressed and held in order to raise or lower the platform.
- **EMERGENCY STOP:** This red push-pull switch must be pulled out (ON) prior to operating the controls. This switch will stop all powered motion in an emergency.
- **RAISE/LOWER:** This toggle switch is used to raise and lower the platform. The switch will return to neutral (center position) when released.
- **CIRCUIT BREAKER:** A resettable 20-amp circuit breaker serves all control circuits. It may be pulled out to de-energize all controls.
- **LP/GAS (OPTIONAL):** If the CONDOR® is equipped with an optional dual fuel system, then this two-position toggle switch is provided to select either gasoline or propane as the fuel source.
- **CHOKE:** This switch may be engaged, while starting the engine, after long periods of non-use or when the engine is difficult to start.
- **START:** Depress this pushbutton switch to start the engine.
- **KEY SWITCH:** This 3-position (UPPER/OFF/LOWER) key switch allows the operator to select either the lower or upper controls for the operation of the CONDOR®.



**V. UPPER CONTROLS**

The upper controls allow operation of all functions of the **CONDOR®**. The **FOOTSWITCH** must be depressed and held while operating functions from the upper control station. The upper controls are as follows:



- **STEERING (L/R):** This switch is used to turn the steering wheels. Move the switch to the right and the **CONDOR®** will steer to the right, move the switch to the left and the **CONDOR®** will steer to the left, both, in forward and reverse. The switch will return to neutral (center position) when released; however, the steering wheels are not automatically self-centering. Therefore, to go straight again after a turn, move the switch in the opposite direction. Release the switch when the **CONDOR®** steers in the desired direction.
- **PLATFORM RAISE/LOWER:** This toggle switch is used to raise and lower the platform. The switch will return to neutral (center position) when released.
- **JACKS—UP/DOWN (OPTIONAL):** When the **CONDOR®** is equipped with optional outriggers and jacks, then this two-position toggle switch is provided to raise and to lower the jacks. The switch will return to neutral (center position) when released.
- **START:** Depress this pushbutton switch to start the engine.
- **EMERGENCY STOP:** This red push-pull switch must be pulled out (ON) prior to operating the controls. This switch will stop all powered motion in an emergency.
- **CHOKE:** This switch may be engaged, while starting the engine, after long periods of non-use or when the engine is difficult to start.
- **HIGH/LOW (OPTIONAL WITH FOUR-WHEEL DRIVE):** This two-position toggle switch is used to select HIGH or LOW drive speed range.
- **FAST/CREEP:** This two-position toggle switch is used to select FAST or CREEP speed. If the **CONDOR®** is equipped with optional four-wheel drive, then a three-position switch is provided to select a medium speed in conjunction with the optional HIGH/LOW speed switch.
- **FORWARD/REVERSE:** This toggle switch is used to select the direction of drive travel. FORWARD and REVERSE relate to the orientation of the operator while facing the control panel.

OPERATING INSTRUCTIONS

<ul style="list-style-type: none"> <li>• TURN KEY, ON LOWER CONTROL PANEL, TO "UPPER" POSITION TO OPERATE FROM PLATFORM.</li> <li>• IN AN EMERGENCY, PUSH RED BUTTON, TO OPERATE FROM PLATFORM, BOTH RED BUTTONS, ON LOWER AND ON UPPER CONTROLS, MUST BE PULLED OUT.</li> <li>• START ENGINE. USE CHOKE OR GLOWPLUGS AS REQUIRED. KEEP FOOT OFF SWITCH WHEN STARTING.</li> <li>• PUT FOOT ON SWITCH TO MOVE CONDOR. TAKING FOOT OFF SWITCH, STOPS ALL POWERED MOVEMENT.</li> <li>• ALL MOVEMENT IS CONTROLLED BY TOGGLE SWITCHES THAT RETURN TO NEUTRAL WHEN LET GO.</li> <li>• STEERING IS NOT AUTOMATICALLY SELF-CENTERING. BE SURE THE STEERING WHEELS POINT IN THE DIRECTION YOU WANT BEFORE LETTING GO OF THE STEER SWITCH.</li> </ul>	<ul style="list-style-type: none"> <li>• DRIVE SPEED IS SELECTED BY A TWO-POSITION "HIGH/LOW" SWITCH. THE FOUR-WHEEL DRIVE OPTION HAS AN ADDITIONAL THREE POSITION "FAST/NEUTRAL/CREEP" SWITCH, ALLOWING SIX SPEEDS.</li> <li>• LIMIT SWITCHES AUTOMATICALLY CUT BACK THE SPEED, AS THE PLATFORM IS RAISED.</li> <li>• BRAKES ARE NORMALLY SPRING-APPLIED AND ARE AUTOMATICALLY RELEASED WHENEVER THE DRIVE SWITCH IS PUSHED.</li> <li>• ON CONDORS WITH JACKS, LIMIT SWITCHES ALLOW THE PLATFORM TO BE RAISED ALL THE WAY UP ONLY WHEN THE JACKS ARE DOWN.</li> <li>• TURN ENGINE OFF WITH KEY ON LOWER CONTROL PANEL.</li> </ul>
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