4.2 GENERAL

This section provides the necessary information needed to operate the machine. Included in this section are the procedures for starting, stopping, traveling, steering, parking, platform loading and transporting the machine. It is important that the user read and understand the proper procedures before operating the machine.

4.3 MOTOR OPERATION

Power Selector Switch

The power selector switch functions to direct battery power to the desired control station. With the switch in the ground position, battery power is supplied to the emergency stop switch at the ground control station. When the switch is in the platform position, battery power is supplied to the emergency stop switch at the platform control station. The power selector switch should be in the off position when recharging the batteries and/or parking the machine overnight.

Emergency Stop Switch

This switch, when in the on (out) position, provides battery power to the ground controls or platform controls, as applicable. In addition, the switch can be used to turn off power (push the switch in) to the function controls in the event of an emergency.

Motor Activation

With the power selector switch in the appropriate position (platform or ground) and the applicable emergency stop switch in the on position and a function switch or controller is operated and held, the motor becomes activated and operates the desired function. When operating from the ground controls, the power selector switch must be held in the ground position while the function is being operated. When operating the platform controls, the lift switch must be used in conjunction with the enable switch, to drive the lever must be depressed in conjunction with the joystick travel.

⚠ IMPORTANT

IF A MOTOR MALFUNCTION NECESSITATES UNSCHEDULED SHUTDOWN, DETERMINE AND CORRECT CAUSE BEFORE RESUMING ANY OPERATION.

⚠ IMPORTANT

ALWAYS POSITION POWER SELECTOR AND EMERGENCY STOP SWITCHES TO THE 'OFF' POSITION WHEN MACHINE IS NOT IN USE.

4.4 RAISING AND LOWERING (LIFTING)

⚠ WARNING

DO NOT RAISE PLATFORM EXCEPT ON A HARD, LEVEL SURFACE FREE OF OBSTRUCTIONS AND HOLES.

NOTE: *The lift switch will not operate if the red trigger switch on the joystick is depressed.*

Raising

1. If the machine is shut down, place the power selector switch to the desired position (platform or ground).
2. Position the applicable emergency stop switch to the on position.
3. If operating from the ground controls, position the lift switch to up and hold until desired elevation is achieved. If operating from the platform controls, press and hold the enable switch, move the lift switch forward (up) and hold until desired elevation is reached. The lift switch works in conjunction with the enable switch.

Lowering

⚠ WARNING

ENSURE SCISSOR ARM AREA IS FREE OF PERSONNEL PRIOR TO LOWERING PLATFORM.

If operating from the ground controls, position the lift switch to down and hold until desired elevation is achieved or until platform is fully lowered. If operating from the platform controls, press the enable switch and push the lift switch backward (down) and hold until desired elevation is reached or until platform is fully lowered. The lift switch works in conjunction with the enable switch.

⚠ WARNING

DO NOT 'LIFT DOWN' WITHOUT COMPLETELY RETRACTING THE PLATFORM EXTENSION.

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Capacities

Raising platform with or without any load in platform, is based on the following criteria:

1. Machine is positioned on a smooth, firm and level surface.
2. Load is within manufacturer's rated capacity.
3. All machine systems are functioning properly.

Stability

This machine, as originally manufactured by JLG and operated within its rated capacity on a smooth, firm and level supporting surface, provides a stable aerial platform for all platform positions.

3.4 CONTROLS AND INDICATORS FOR NON PROPORTIONAL CONTROL

Battery Charger

NOTE: *If batteries are run down to under 6 volts, the supplied battery charger will not pick up the charge.*

The battery charger is located in the right side battery door. The charger is a 20 Amp, SCR-style charger equipped with a manual switch that allows the operator to select 110-125 Volt input or 220-250 Volt input. A rocker switch circuit breaker is included to reset the charger in the event of a loss of power. LED's on the front panel of the charger indicate the status of charger operation (Charge Complete, 80% Charge, Incomplete Charge, Charger On, Abnormal Cycle)

Ground Control Station

⚠ WARNING

DO NOT OPERATE FROM GROUND CONTROL STATION WITH PERSONNEL IN THE PLATFORM EXCEPT IN AN EMERGENCY.

⚠ WARNING

PERFORM AS MANY PRE-OPERATIONAL CHECKS AND INSPECTIONS FROM THE GROUND CONTROL STATION AS POSSIBLE. REFER TO SECTION 2 FOR PRE-OPERATIONAL CHECKS AND INSPECTIONS.

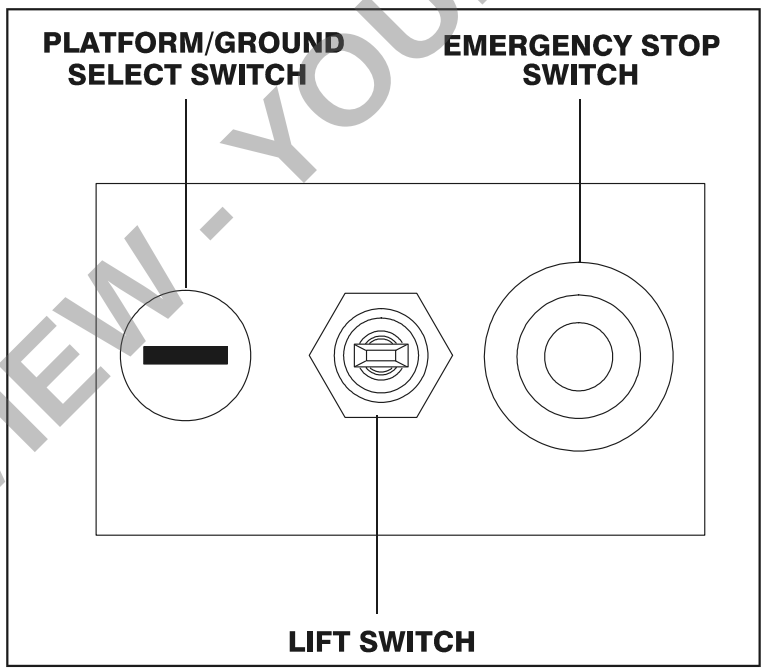


Figure 3-1. Ground Control Station

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2.2 PREPARATION, INSPECTION, AND MAINTENANCE

The following table covers the periodic machine inspections and maintenance recommended by JLG Industries, Inc. Consult local regulations for further requirements for aerial work platforms. The frequency of inspections and maintenance must be increased as necessary when the machine is used in a harsh or hostile environment, if the machine is used with increased frequency, or if the machine is used in a severe manner.

Table 2-1.Inspection and Maintenance Table

Type	Frequency	Primary Responsibility	Service Qualification	Reference
Pre-Start Inspection	Before using each day; or whenever there's an Operator change.	User or Operator	User or Operator	Operator and Safety Manual
Pre-Delivery Inspection (See Note)	Before each sale, lease, or rental delivery.	Owner, Dealer, or User	Qualified JLG Mechanic	Service and Maintenance Manual and applicable JLG inspection form
Frequent Inspection	In service for 3 months or 150 hours, whichever comes first; or Out of service for a period of more than 3 months; or Purchased used.	Owner, Dealer, or User	Qualified JLG Mechanic	Service and Maintenance Manual and applicable JLG inspection form
Annual Machine Inspection	Annually, no later than 13 months from the date of prior inspection.	Owner, Dealer, or User	Factory-Certified Service Technician*	Service and Maintenance Manual and applicable JLG inspection form
Preventative Maintenance	At intervals as specified in the Service and Maintenance Manual.	Owner, Dealer, or User	Qualified JLG Mechanic	Service and Maintenance Manual

NOTE: *Inspection forms are available from JLG. Use the Service and Maintenance Manual to perform inspections.*

** JLG Industries, Inc. recognizes a Factory-Certified Service Technician as a person who has successfully completed the JLG Service Training School for the specific JLG product model.*

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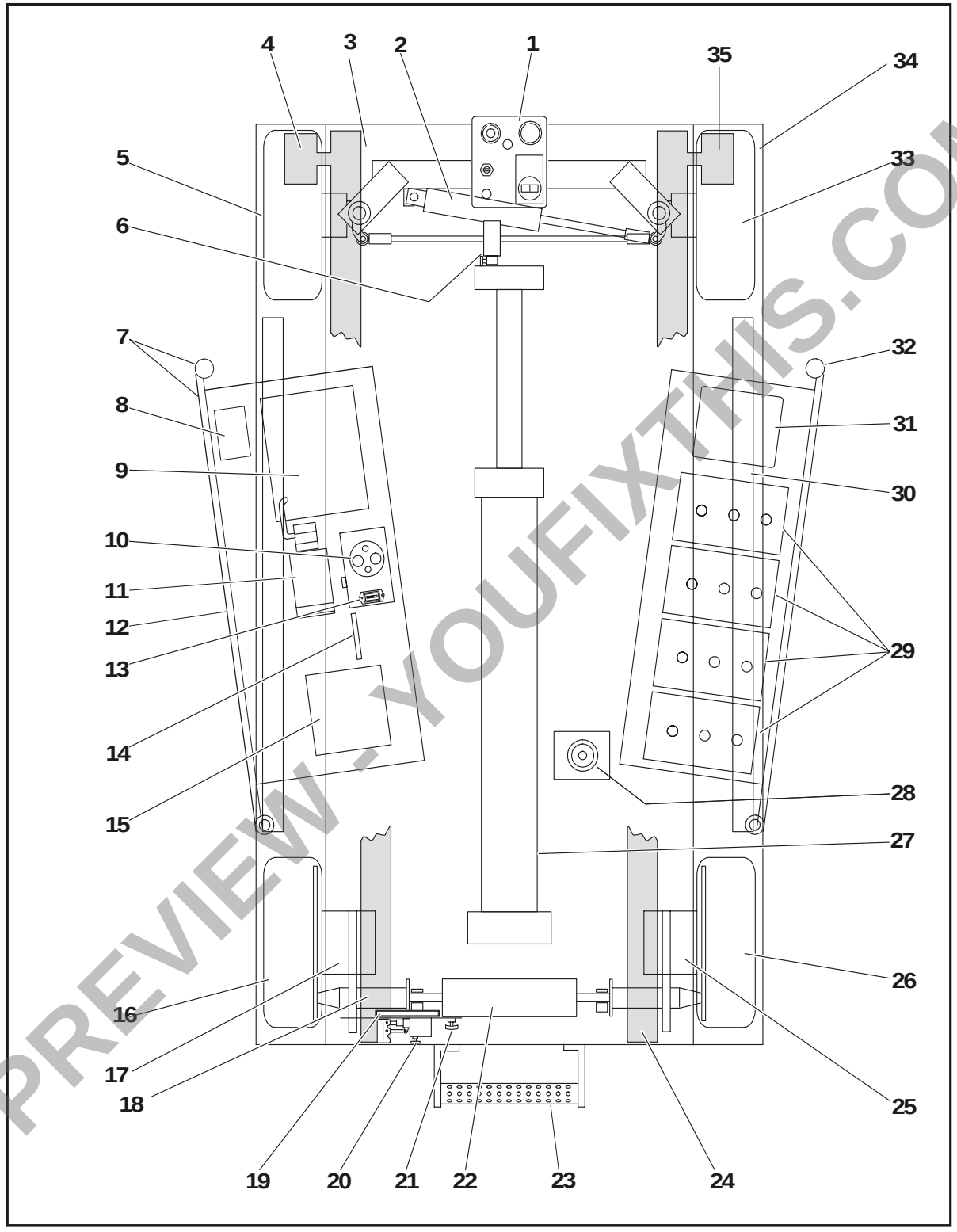


Figure 2-1. Daily Walk-Around Inspection - 2032E2/2632E2/2646E2/3246E2 (Sheet 1 of 2).

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Table 3-2. Decal Location Legend - 1932E2

Item # 1532E2/ 1932E2	Ansi	Australian	China/ English	Dutch	French	French/ English	German	Italian	Japan
1	1702773	1702773	1702773	1702773	1702773	1702773	1702773	1702773	1702773
2	1703817	1703817	1703817	1703817	1703817	1703817	1703817	1703817	1703817
3	1703823	1703823	1704609	1703895	1703866	1703866	1703883	1703888	1703850
4	1703811	1703811	1703811	1703811	1703811	1703811	1703811	1703811	1703811
5	1704399	1704399	1704399	1704399	1704399	1704399	1704399	1704399	1704399
6	1703814	1703814	1703814	1703814	1703814	1703814	1703814	1703814	1703814
7	1703819	1703819	1703819	1703819	1703819	1703819	1703819	1703819	1703819
8	1703813	1703813	1704613	1703893	1703864	1703864	1703881	1703886	1703848
9	N/A	N/A	N/A	1702928	1702928	N/A	1702928	1702928	N/A
10	3252747 (1532E2) 3252598 (1932E2)	N/A (1532E2) 3252598 (1932E2)	3252747 (1532E2) 3252598 (1932E2)	N/A (1532E2) 3252598 (1932E2)	3252747 (1532E2) 3252598 (1932E2)	3252747 (1532E2) 3252598 (1932E2)	N/A (1532E2) 3252598 (1932E2)	N/A (1532E2) 3252598 (1932E2)	3252747 (1532E2) 3252598 (1932E2)
11	3251813	N/A	N/A	3251813	N/A	3251813	N/A	N/A	N/A
12	N/A	1703969	N/A	1703973	1703970	1703868	1703971	1703972	N/A
13	1703818	1703818	1704611	1703894	1703865	1703865	1703882	1703887	1704282
14	1703869	1703869	1703869	1703869	1703869	1703869	1703869	1703869	1703869
15	1702153	1704123	1704607	N/A	N/A	1703074	N/A	N/A	1701621
16	1703868	N/A	1703868	N/A	N/A	1703868	N/A	1703886	1703868
17	1703706	1703706	1703706	1703706	1703706	1703706	1703706	1703706	1703706
18	1703816	3252616	1704616	1704173	1704173	1703867	1704173	1704173	1704278 (1532E2) 1703868 (1932E2)
19	N/A	1703877	N/A	1703896	1703878	N/A	1703884	1703889	1704807
20	1701509	1701509	1701509	1701509	1701509	1701509	1701509	1701509	1701509
21	1704017	1704017	1704608	1704149	1704146	1704146	1704147	1704148	1704144
22	1703822	1703822	1703822	1703822	1703822	1703822	1703822	1703822	1703822
23	3252645	3252534	3252699	3252533	3252645 (1532E2) 3252533 (1932E2)	3252645	3252533	3252533	3252644 (1532E2) 3252749 (1932E2)

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SECTION 5. EMERGENCY PROCEDURES

5.1 GENERAL

This section provides information on the procedures to be followed and on the systems and controls to be used in the event an emergency situation is encountered during machine operation. Prior to operation of the machine and periodically thereafter, the entire operating manual, including this section, should be reviewed by all personnel whose responsibilities include any work or contact with the machine.

5.2 EMERGENCY TOWING PROCEDURES

Although towing the machine is prohibited, provisions for moving the machine, in case of a malfunction, power failure, or for loading on a truck, have been incorporated. The following procedures are to be used ONLY for emergency movement to a suitable maintenance area or to load the machine on a truck. These procedures are also found on a decal affixed to the frame at the rear of the machine.

1. Chock the wheels securely.
2. Turn the black knob on the main control valve counterclockwise all the way out to disengage the drive motors.
3. Using a 19mm wrench, release the parking brake by moving the brake cams to the horizontal position.
4. Using suitable equipment for assistance, remove the chocks, and move the machine to an appropriate maintenance area or onto the truck.

After moving the machine, complete the following procedures:

1. Position the machine on a firm, level surface.
2. Chock the wheels securely.
3. Using a 19mm wrench, engage the parking brake by moving the brake cams to the vertical position.
4. Turn the black knob on the main control valve clockwise all the way in to engage the drive motors.
5. Remove the chocks from the wheels.

5.3 EMERGENCY CONTROLS AND THEIR LOCATIONS

Emergency Stop Switch

These large red buttons, one located at the Ground Control Station and one at the Platform Control Station, will immediately stop the machine when depressed.

⚠ WARNING

CHECK MACHINE DAILY TO MAKE SURE EMERGENCY STOP BUTTON IS IN PLACE AND THAT GROUND CONTROL INSTRUCTIONS ARE IN PLACE AND LEGIBLE.

Power Selector Switch

The key-operated power select switch, located at the Ground Control Station, can also be used to shut down the machine in an emergency situation. To shut off machine power, turn the power select switch to the center off (O) position.

Ground Control Station

The Ground Control Station is located on the left side of the machine frame. The controls on this panel provide the means for overriding the platform controls and for controlling the platform lift up and down functions from the ground. Place the power select switch in the ground position and operate the lift switch to lift up or down.

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4.5 PLATFORM EXTENSION

Manual Platform Extension

The machine is equipped with a mechanically extendible deck, which adds 0.9 m (3 ft.) to the front of the platform, giving the operator better access to worksites. To extend the deck, pull pins, attached to lanyards, located at both sides at the front of the platform extension, extend platform extension and replace pins in holes. Do not drive machine unless platform extension is properly pinned. To retract the deck, remove pins pull platform extension back in and install pins back into holes. Do not drive machine unless platform extension is properly pinned. Maximum capacity of the deck extension is 120 kg (250 lb) - 1 person.

4.6 STEERING

To steer the machine, the thumb operated steer control switch on the joystick is positioned to the right for traveling right, or to the left for traveling left. When released, the switch will return to the center-off position and the wheels will remain in the previously selected position. To return the wheels to the straightened position, the switch must be activated in the opposite direction until the wheels are centered.

4.7 TRAVELING (DRIVING)

NOTE: *High drive is cut out when the platform is raised above the preset heights listed in Figure 4-2, High Drive Cutout:*

Table 4-2. High Drive Cutout

Model	High Drive Cutout (Maximum Height)
1932E2	104 in (2.6 m)
2032E2	84 in (2.1 m)
2632E2 (Australian Only)	114 in (2.9 m)
2632E2/2646E2	102 in (2.6 m)
3246E2	112 in (2.8 m)

⚠ WARNING

DO NOT DRIVE WITH PLATFORM RAISED EXCEPT ON A SMOOTH, FIRM AND LEVEL SURFACE FREE OF OBSTRUCTIONS AND HOLES.

⚠ WARNING

TO AVOID LOSS OF TRAVEL CONTROL OR UPSET ON GRADES AND SIDESLOPES, DO NOT DRIVE MACHINE ON GRADES OR SIDESLOPES EXCEEDING THOSE SPECIFIED FOR THE MACHINE.

⚠ WARNING

TRAVEL GRADES IN "LOW" DRIVE SPEED ONLY. USE EXTREME CAUTION WHEN DRIVING IN REVERSE AND AT ALL TIMES WHEN DRIVING WITH PLATFORM ELEVATED AND ESPECIALLY WHEN DRIVING WITH ANY PART OF MACHINE WITHIN 1.8 METERS (6 FT) OF AN OBSTRUCTION.
TO GO BACK DOWN THE GRADE, IF TRAVELING FORWARD UP THE GRADE, BUMP THE CONTROL HANDLE FORWARD SLIGHTLY TO ENSURE THE BRAKES ARE RELEASED BEFORE DESCENDING THE GRADE.

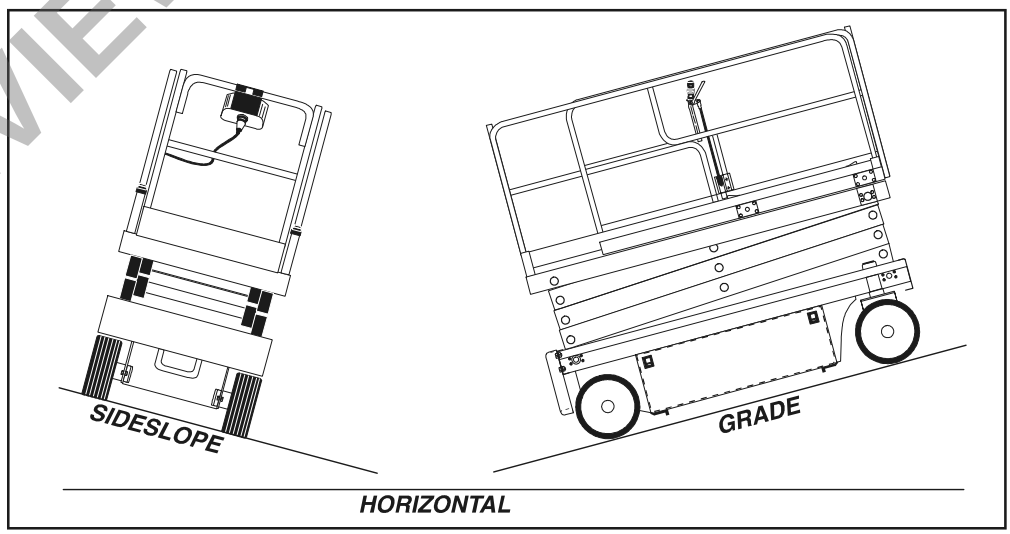


Figure 4-1. Grade and Sideslope

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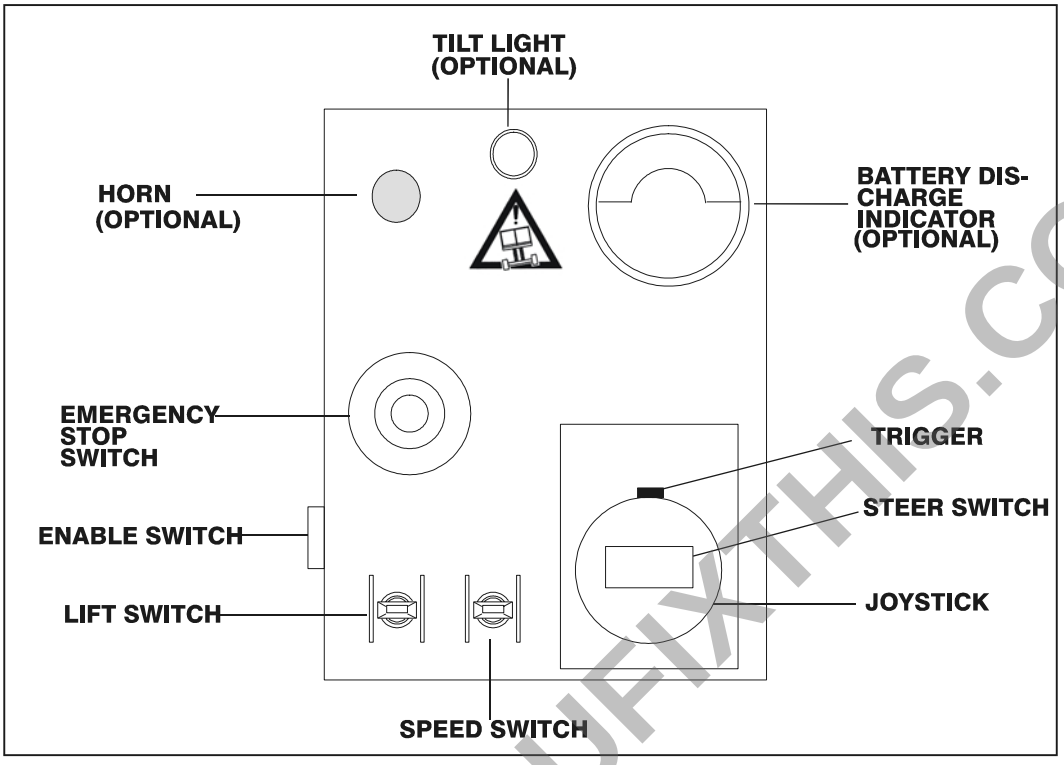


Figure 3-2. Platform Control Station - Non Proportional Control

⚠ CAUTION

DO NOT OPERATE MACHINE IF HIGH DRIVE SPEED OPERATES WHEN PLATFORM IS RAISED ABOVE THE STOWED POSITION.

NOTE: *The machine is equipped with a Pothole Protection System which lowers automatically when the platform is raised. The Pothole Protection System will also lower when either of the doors are opened, but only on the side of the opened door and this will not provide tip over protection. If the Pothole Protection System does not fully lower, the DRIVE function is cut out until the platform is completely lowered.*

7. Tilt Alarm Warning Horn.(If Equipped)
   The Tilt Alarm Warning is activated by the Tilt Alarm Switch when the chassis is on a slope. See Figure 3-1, Tilt, for degree of tilt per model.

Table 3-1. Tilt

1932E2/2032E2	2632E2/2646E2/3246E2
1.5 Degrees	2 Degrees

⚠ WARNING

IF TILT ALARM IS ON WHEN PLATFORM IS RAISED, LOWER PLATFORM COMPLETELY, THEN REPOSITION MACHINE SO THAT IT IS LEVEL BEFORE RAISING PLATFORM.

8. Tilt Alarm Warning Light. (If Equipped)
   A red warning light on the control box panel will illuminate when the chassis is on a slope. See Figure 3-1, Tilt, for degree of tilt per model
9. Horn. (If Equipped)
   This push button switch, when activated, permits the operator to warn jobsite personnel when the machine is operating in the area.
10. Battery Discharge Indicator
    The battery discharge indicator is a gauge that provides a visual indication of the condition of the batteries.

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