

## SECTION 2 OPERATION

### Operating Controls Identification

The following descriptions are for identification, explanation and locating purposes only. A qualified operator **MUST** read and completely understand these descriptions before operating this work platform. Procedures for operating this work platform are detailed in the “**OPERATING PROCEDURES**” section. Both standard and optional controls are identified in this section. Therefore, some controls may be included that are not furnished on your work platform.

### Base Controls

#### Electrical Panel

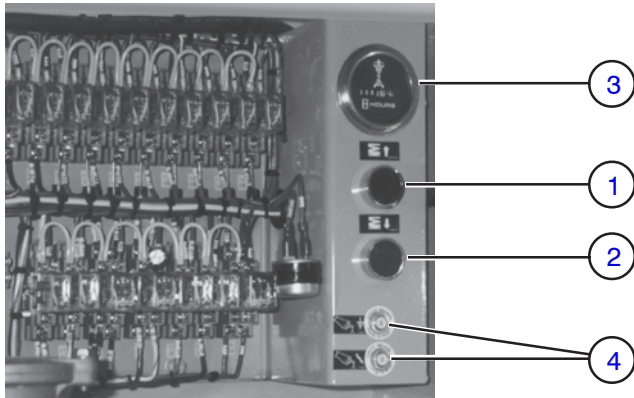


Figure 2-1. Electrical Panel

**Electrical Panel** - This control station is located in the Hydraulic/Electric Side Cabinet. It contains the following controls:

1. **Up Push-Button Switch** - This push-button switch will raise the platform to desired height.
2. **Down Push-Button Switch** - This push-button switch will lower the platform to desired height.
3. **Hour meter** - This gauge records engine running time.
4. **20 Amp Circuit Breaker Resets** - In the event of a power overload or positive circuit grounding, circuit breaker will pop out.

### Emergency Battery Disconnect Switch

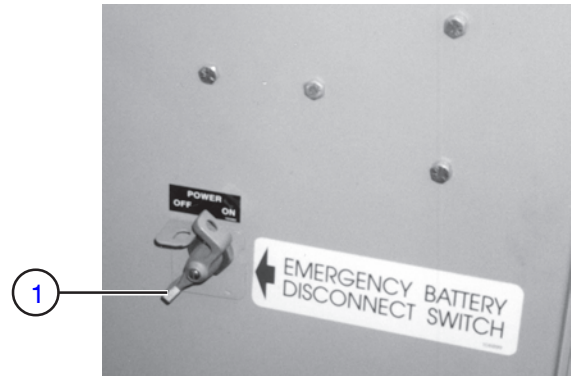


Figure 2-2. Emergency Battery Disconnect Switch

1. **Emergency Battery Disconnect Switch** Located at the front of the Hydraulic/Electric Side Cabinet, this switch when in the “OFF” position, disconnects power to all circuits. Switch **MUST** be in “ON” position to operate any circuit.

## Engine Control Panel (Dual Fuel)

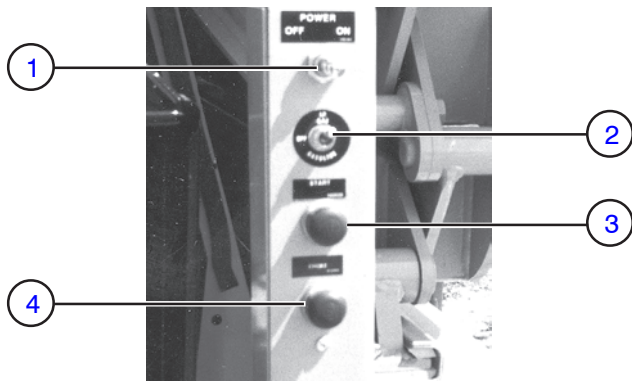


Figure 2-3A. Engine Control Panel -  
Ford Gasoline Engine  
(Shown with Dual Fuel)

**Engine Control Panel** - This control station is attached to the Engine Roll-out at the front of the base. It contains the following controls:

- 1. Engine Off/On Switch** - This plunger-type switch, when pulled out, energizes the engine circuit and the operator's control box. To stop engine, push plunger in.
- 2. Fuel Select Switch** (Machines with Dual Fuel) - Used to switch from LP GAS to gasoline
- 3. Engine Start Push-Button** - This push-button switch energizes the engine starter motor.
- 4. Engine Choke Push-Button** - This push-button switch sets the choke for starting a cold gasoline/propane engine.

## Engine Control Panel (Diesel)

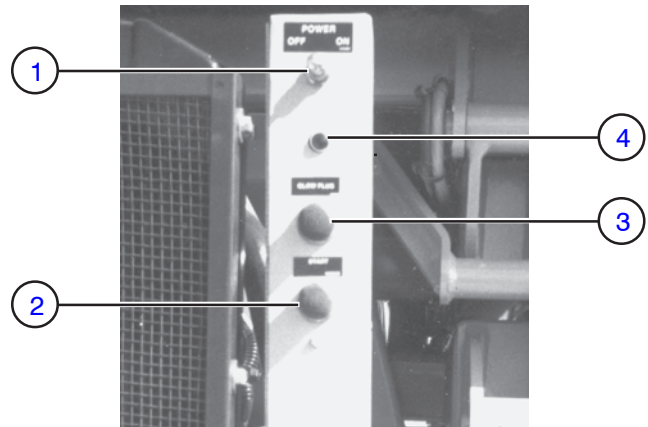


Figure 2-3B. Engine Control Panel -  
Kubota Diesel Engine

**Engine Control Panel** - This control station is attached to the Engine Roll-out at the front of the base. It contains the following controls:

- 1. Engine Off/On Switch** - This plunger-type switch, when pulled out, energizes the engine circuit and the operator's control box. To stop engine, push plunger in.
- 2. Engine Start Push-Button** - This push-button switch energizes the engine starter motor.
- 3. Engine Glow Plug Push-Button** - This push-button switch energizes the glow plug to aid in starting a cold diesel engine.
- 4. Glow Plug Indicator Light** - This red lamp illuminates until the glow plugs have completed their timed heating cycle. When the lamp goes out, the engine is ready to be started.

## Base Control Box/Station (CE)

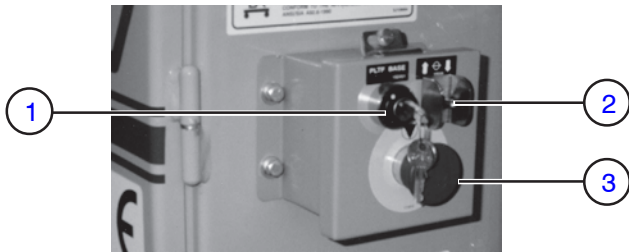


Figure 2-4A. Base Control Box and Labels  
(Located at rear of hydraulic/electric side cabinet)



Figure 2-4B. Base Control Station and Labels  
(Located at rear of hydraulic/electric side cabinet)

**Base Control Box/Station** - This control station is found on the rear of the hydraulic/electric cabinet or on the rear of the base. It contains the following controls:

- 1. Platform/Base Select Key Switch** - Key to "PLATFORM" position directs power to the operator's control box on the platform. Key to "BASE" position directs power to the base control box/station.
- 2. Platform Up/Down Selector Switch** - This toggle switch raises or lowers the platform to a desired height.
- 3. Emergency Stop Button** - This red "mushroom-head" shaped button switch is designed to disengage power to the platform controls.

## 1500W AC Inverter (Option)

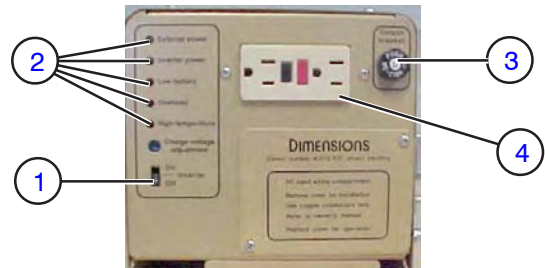


Figure 2-6. 1500W AC Inverter

**Inverter** - The inverter is located on the base of the machine, it has the following controls.

- 1. ON/OFF Switch** - This slide switch will activate or terminates inverter function.
- 2. Status LEDs** - These LEDs indicate the operating or fault status of the inverter .
- 3. 15 Amp Circuit Breaker** - In the event of a power overload or circuit grounding, this circuit breaker will pop out.
- 4. GFCI Outlet** - During inverter operation, this outlet provides AC power.

## Platform Controls Operator's Control Box

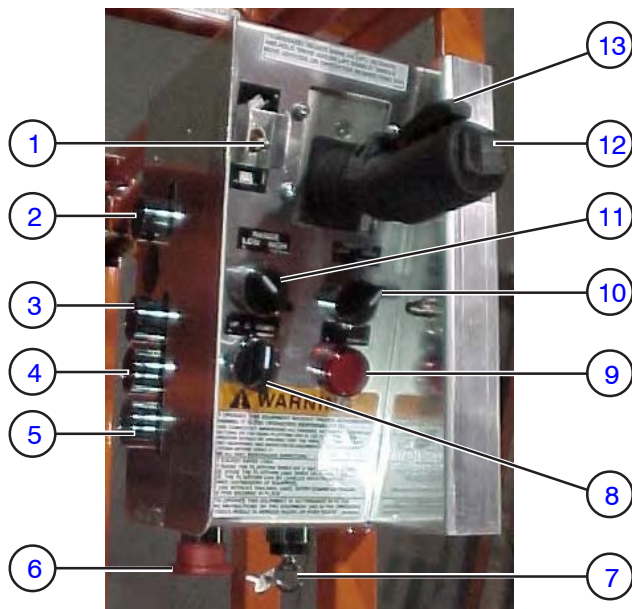


Figure 2-7. Operator's Control Box

**Operator's Control Box** - This metal control station is mounted at the right front of the platform. It contains the following controls:

**1. Torque Toggle Switch** - This toggle switch, when in the "  " position, cuts out High Range and 3rd speed to provide maximum torque when climbing grades and in rough terrain. When in the "  " position, all three speeds are available.

**2. Operator Horn Push-Button** - Located on the side of the Operator's Control Box, this push-button switch, when depressed, sounds an automotive-type horn.

**3. Engine Choke Push-Button** (Dual fuel engines) - Located on the side of the control box, this push-button sets choke for starting a cold gasoline engine.

**Glow Plug Push-Button** (Diesel Engines) - Located on the side of the control box, this push-button powers the glow plug for starting cold diesel engines.

**4. Engine Start Push-Button** - Located on the side of the control box, this push-button energizes the engine starter motor.

**5. Enable Push-Button** - When depressed and held, this push-button switch brings power to the lift or outrigger circuits.

**6. Emergency Stop Button** - When struck, this red push-button switch disconnects power to the control circuit.

**7. Off/Lift/Drive Select Key Switch** - Key to "OFF" position disconnects power to the control box. Key to "LIFT" position brings power to the Lift Enable Push-button. Key to "DRIVE" position brings power to the Drive/Steer Controller.

**8. Up/Down Selector Switch** - This rotating selector switch raises or lowers the platform to the desired height.

**9. Platform Power Indicator Light** - Light will glow when key switch is in "LIFT" or "DRIVE" position. Light will not glow when key switch is in "OFF" position.

**10. Low/High Throttle Select Switch** - This rotary switch allows selection between high and low engine throttle speeds.

**11. Low/High Range Select Switch** - This rotary switch selects "LOW" range (high torque) or "HIGH" range (high speed).

**12. Drive/Steer Controller** - A one-hand toggle type lever to control steer and three-speed drive motion. It is a "deadman" control which returns to neutral when released.

**13. Drive Enable Switch** - This momentary "Trigger" style switch energizes the drive/steer controller. It must be held depressed continuously while engaging either the drive or steer functions.

## Outrigger Controls (Option)

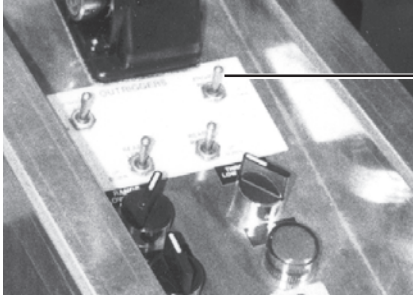


Figure 2-8A. Outrigger Controls On Operator's Control Box



Figure 2-8B. Outrigger Controls On The Optional Control Box Console

**Outrigger Controls** - Located on the Operator's Control Box, these switches control each outrigger's extension and retraction

1. **Outrigger Up/Down Control Toggle Switches** - These switches control the extension and retraction of each individual outrigger

## Hydraulic Generator Control (Option)

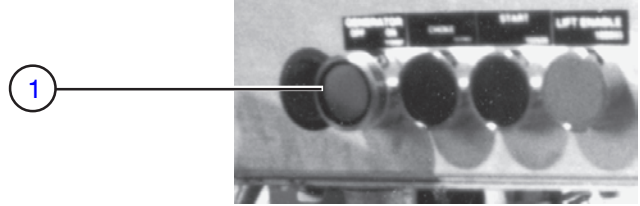


Figure 2-9A. Hydraulic Generator Control On The Main Control Box

**Hydraulic Generator Control** - Located on the side of the Operator's Control Box, or on the Options control box (Not Shown). This push-button or toggle switch starts the hydraulic generator on the base.

1. **Hydraulic generator Off/On Push-Button Switch**  
This illuminated push-button switch starts the base mounted generator. It illuminates when the generator is activated.

## Powered Extension Platform Control Box (Option)

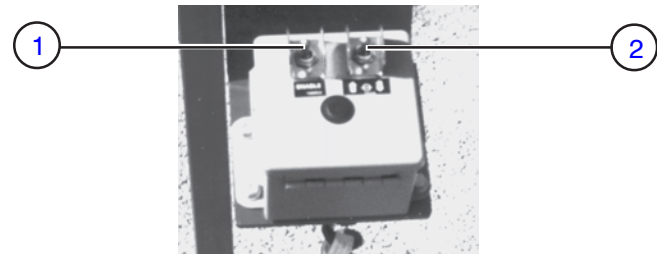


Figure 2-10. Powered Extension Platform Control Box

**Powered Platform Control Box** - This metal control station is mounted at the right front of the extension platform. It contains the following controls:

1. **Enable Switch** - This switch, when activated brings power to the Platform Extend/Retract Switch.
2. **Platform Extend/Retract Switch** - This switch, when activated extends/retracts the powered extension platform.

## Identification And Operation of Safety Devices

### Fold-Down Guardrail System

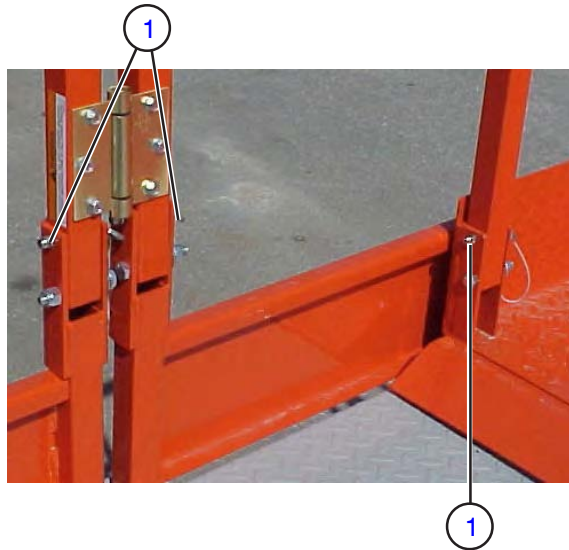


Figure 2-11. Fold-Down Guardrail System

**Fold-Down Guardrail System** - This system when folded down, reduces the shut height of the work platform for transporting and traveling through doorways.

**1. Guardrail Locking Pin W/Lanyard** - To fold the guardrail system down, remove the locking pin at each pivot point and lower each guardrail. To raise the guardrail system, swing up each guardrail and lock in place with the locking pins ensuring that the detent ball of each pin is clear of the side of the pivot brackets. (Figure 2-12.)

### **Warning**

The guardrail system **MUST** be upright and locked in place before resuming normal operation. **Check the guardrail system for loose or missing locking pins before operating this equipment!**

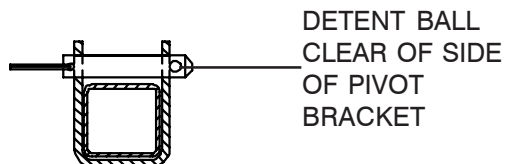


Figure 2-12. Correct Position of Locking Pin

### Base Controls - Manual Safety Bar



Figure 2-13. Safety Bar

**1. Safety Bar** - Designed to support the scissors assembly (when properly positioned), the safety bar **MUST** be used for inspection and performing maintenance or repairs within the scissors assembly. To lower safety bar, push lock lever rearward and the safety bar will drop. Follow procedure on safety bar decal to properly position safety bar.

### **Warning** **Crushing Hazard**

**DO NOT** reach through scissor assembly without the safety bar properly positioned. **Failure to avoid this hazard will result in death or serious injury!**

## Operating Procedures

The following descriptions are for Operating Procedures. A qualified operator **MUST** read and completely understand these descriptions before operating this work platform.

### Set-Up Procedure

1. Remove all packing materials and inspect for damage incurred during transport. This is normally required for equipment being put into service for the first time, after the equipment has been unloaded.

#### Note

Report any damage to delivery carrier immediately.

2. Inspect work platform thoroughly and remove any foreign objects.
3. Raise the side, extension platform (if so equipped), and gate railings to their upright position and lock in place with locking pins. Lock side railings to front railings with locking pins.
4. Remove the operator's control box from its shipping container and secure it to the railing at the right front of the platform. Attach the control cable and power deck extension cable (if so equipped) to the scissor's control cable.
5. Open the fuel tank side cabinet door. Fill the fuel tank to "F" level on fuel gauge with the proper fuel. (Refer to decal on fuel tank)
6. Close the fuel tank side cabinet door.
7. Machines with Dual Fuel:  
Make sure propane hose coupler is properly secured at propane cylinder and valve on propane cylinder is opened all the way.
8. Open the hydraulic tank side cabinet door. Check the hydraulic oil level (scissors must be fully lowered) in the tank. Level should be at or slightly above the top mark on the sight glass. If required, add a quality grade hydraulic oil such as ATF Dexron III (ESSO).
9. Check the battery fluid level. If fluid level is not at FULL mark on battery, add distilled or demineralized water only.



## Warning Explosion Hazard

Keep flames and sparks away. **DO NOT** smoke near batteries.

### First Aid

Immediately flush eyes with cold water if electrolytic acid is splattered into them. Seek medical attention.

10. Move the work platform to a level, firm test area where the work platform can be vertically extended to its maximum working height. If the work platform is to be pushed, towed or winched, ensure that the parking brake has been disengaged. **When pushing, towing or winching, DO NOT exceed 2 mph (3.2 kph).**

#### Using the Base Controls:

11. Turn the Emergency Power Disconnect Switch to "ON" position.

#### Using the Platform Controls:

12. Pull out the Emergency Stop Button.

#### Note

Engine will not start unless this button is in the "ON" position.

13. Insert key into Off/Lift/Drive Select Key Switch and turn to "LIFT" position.

#### Note

Start engine in low throttle position.

#### Using the Engine Controls on the Engine:

14. Pull Engine Off/On Switch plunger out.
15. Select desired fuel source with Fuel Select Switch. (Gasoline engines with dual fuel)

#### Note

Refer to label on inside of engine front guard for fuel switch sequence.

16. Depress and hold the Choke Push-Button. (Gasoline engines) Depress and hold Glow Plug Push-Button for 15 to 20 seconds. (Diesel engines)

17. Depress and hold the Engine Start Push-Button until the engine starts, then release. **DO NOT** over crank the starter. Release the Engine Choke Push-button.

#### **Using the Base Controls:**

18. Raise the platform with the "Up" Selector Switch on the Base Control Box until the open height between scissors center pins is approximately 18" (45.72cm).
19. Unlatch and carefully swing down the safety bar. Follow procedure on safety bar decal to properly position safety bar.



### **Warning** **Crushing Hazard**

**DO NOT** reach through scissor assembly without the safety bar properly positioned. Failure to avoid this hazard will result in death or serious injury!

20. Slowly lower the platform with "Down" Selector Switch on the Base Control Box until the scissors assembly is firmly resting on the safety bar.
21. Inspect all hoses, fittings, wires, valves, etc. for leaks, loose or missing parts, hidden damage, and foreign material.
22. Raise the platform with the Up Switch until the open height between scissors center pins is approximately 18" (45.72cm).
23. Carefully swing up safety bar and lock in position.
24. Again, raise the platform with the Up Switch until the platform has reached maximum working height.

### **Note**

Refer to Table 1-1. Specifications and Features for proper lift and lowering times.

25. Use the Down Switch to lower the platform to it's fully lowered position.
26. Your SKYJACK Model is now ready for use by an authorized, qualified operator who has read and completely understands ALL of Section 2, OPERATION in this manual.

## **Operating Procedures**

### **Prestart Checks**

1. Carefully read and completely understand ALL of Section 2, OPERATION in this manual and ALL warnings and instruction decals on the work platform.
2. Check for any obstacles around the work platform and in the path of travel such as holes, drop offs, debris, ditches and soft fill.
3. Check overhead clearances.
4. Make sure all guardrails are in place and locked in position.

### **OPERATOR'S CHECKLIST**

#### **INSPECT AND/OR TEST THE FOLLOWING DAILY OR AT BEGINNING OF EACH SHIFT**

1. OPERATING AND EMERGENCY CONTROLS.
2. SAFETY DEVICES AND LIMIT SWITCHES.
3. PERSONAL PROTECTIVE DEVICES.
4. TIRES AND WHEELS.
5. OUTRIGGERS (IF EQUIPPED) AND OTHER STRUCTURES.
6. AIR, HYDRAULIC AND FUEL SYSTEM(S) FOR LEAKS.
7. LOOSE OR MISSING PARTS.
8. CABLES AND WIRING HARNESSSES.
9. PLACARDS, WARNINGS, CONTROL MARKINGS AND OPERATING MANUALS.
10. GUARDRAIL SYSTEM, INCLUDING LOCKING PINS.
11. ENGINE OIL LEVEL (IF SO EQUIPPED).
12. BATTERY FLUID LEVEL.
13. HYDRAULIC RESERVOIR LEVEL.
14. COOLANT LEVEL (IF SO EQUIPPED).
15. PARKING BRAKE (CHECK OPERATION).



**Warning**  
**DO NOT OPERATE THIS EQUIPMENT  
WITHOUT PROPER AUTHORIZATION AND  
TRAINING. DEATH OR SERIOUS INJURY  
COULD RESULT FROM IMPROPER USE  
OF THIS EQUIPMENT!**

## Operator Qualifications

Only trained and authorized persons should use this work platform. Safe use of this work platform requires the operator to understand the limitations and warnings, operating procedures and operator's responsibility for maintenance. Accordingly, the operator **MUST** understand and be familiar with this operating manual, its warnings and instructions and ALL warnings and instructions on the work platform. The operator also **MUST** be familiar with employer's work rules, related government regulations and be able to demonstrate his/her ability to understand and operate THIS make and model work platform in the presence of a qualified person.

## Start and Operation

### *Using the Base Controls:*

1. Turn Emergency Power Disconnect Switch to "ON" position. CE units - make sure base control emergency stop button is in the "ON" position.

### *Using the Engine Controls on the Engine:*

2. Pull Engine Off/On Switch plunger out.
3. Select desired fuel source with Fuel Select Switch. (Gasoline engines with Dual Fuel)

### **Note**

Refer to label on inside of engine front guard for fuel switch sequence.

4. Use the ladder of the work platform to access the work platform deck. Close and latch the gate.

### *Using the Platform Controls:*



### **Warning**

**TO PROTECT AGAINST UNINTENDED MOVEMENT OF THE WORK PLATFORM, PUSH IN THE EMERGENCY STOP BUTTON AFTER YOU HAVE ARRIVED AT YOUR DESIRED LOCATION OR ELEVATION.**

5. Pull out the Emergency Stop Button.

6. Insert key into the Off/Lift/Drive Select Key Switch, then select "LIFT" or "DRIVE". Select "LOW" position with HI/LOW Throttle Select Switch.
7. If the engine is cold, depress and hold the Engine Choke Push-button (Gasoline engines) or depress and hold the Glow Plug Push-button for 15 to 20 seconds (Diesel engines) and release.
8. Depress and hold the Engine Start Push-Button until engine starts, then release. **DO NOT** over crank the starter.
9. Select "HIGH" position with the Low/High Throttle Select Switch.
10. **To Raise the Platform:** Ensure the emergency stop button is pulled out. Select "LIFT" position with Off/Lift/Drive Select Key Switch. Depress and hold the Enable Push-button, then select "↑" (up) position with Up/Down Selector Switch. Release switch to stop.
11. **To Lower the Platform:** Ensure the emergency stop button is pulled out. Select "LIFT" position with Off/Lift/Drive Select Key Switch. Depress and hold the Enable Push-button, then select "↓" (down) position with Up/Down Selector Switch. Release switch to stop. A warning alarm will sound while lowering.
12. **If High Torque is Desired:** Select "LOW" position with the Low/High Range Select Switch. Select "LOW" range when climbing grades, traveling in rough terrain and when loading or unloading the work platform.  
**If High Speed is Desired:** Select "HIGH" position with the Low/High Range Select Switch. Select "HIGH" range when traveling on a hard level surface with the platform fully lowered.
13. **To Drive Forward or in Reverse:**
  - 1- Ensure the emergency stop button is pulled out. Select "DRIVE" position with the Lift/Off/Drive Key Switch.
  - 2- Activate and hold the Drive Enable trigger switch (by squeezing it towards the joystick).
  - 3- Push or pull the controller handle forward or backward to the desired speed and direction of platform travel.
  - 4- Return the joystick to the neutral center position to stop. Release the Enable trigger switch.

14. **To Steer:** Select “DRIVE” position with Off/Lift/Drive Select Key Switch. Activate and hold the Drive Enable trigger switch (by squeezing it towards the joystick), then press the rocker switch on top of the Drive/Steer Controller handle in the direction you wish to steer.
15. **To Climb a Grade:** Select “” position with the Torque Toggle Switch.



### Warning

**MACHINE MUST BE IN FULLY RETRACTED POSITION**

16. **To extend/retract a manual extension platform:** To extend the platform remove the retaining locking pins and push/pull the extension platform using the push bar until the desired extension is reached. Reinsert the locking pins to prevent accidental movement of the extension deck during travel or transport.
17. **To extend/retract a hydraulic powered extension platform:** To extend the platform, turn key to “LIFT” position with Off/Lift/Drive Select Key Switch, activate the Enable Switch, then push the extension/retraction toggle switch to the “” position until desired extension is reached. Release switch to stop. To retract the platform, turn key to “LIFT” position with Off/Lift/Drive Select Key Switch, activate the Enable Switch, then push the extension/retraction toggle switch to the “” (retract) position until desired retraction is reached. Release switch to stop.
18. **To switch from LP GAS to gasoline:** Move fuel selector switch on engine control panel to the “GASOLINE” position. To shut off fuel, move switch to “OFF” position.
- To switch from gasoline to LP GAS:** With the engine running, move switch to “OFF” position and let engine run until gasoline is exhausted from carburetor. When engine stops, move switch to “LP GAS” position and restart engine. Make sure LP GAS valve is ON when switching from gasoline to LP GAS and valve is OFF when switching from LP GAS to gasoline.

## Shutdown Procedure

1. Completely lower the platform.
2. Turn key to “OFF” position and remove key from Off/Lift/Drive Select Key Switch in control box.
3. Push Emergency Stop Button(s) in.
4. Turn Emergency Power Disconnect Switch to “OFF” position. CE units - remove key then push in Emergency Stop Button on the base control box.

## Emergency Lowering System

### **Warning** **Crushing Hazard**

**Keep clear of scissors mechanism when using emergency lowering valve!** After emergency lowering is completed, the red knurled knobs on each holding valve **MUST** be depressed and turned clockwise to restore normal operation.

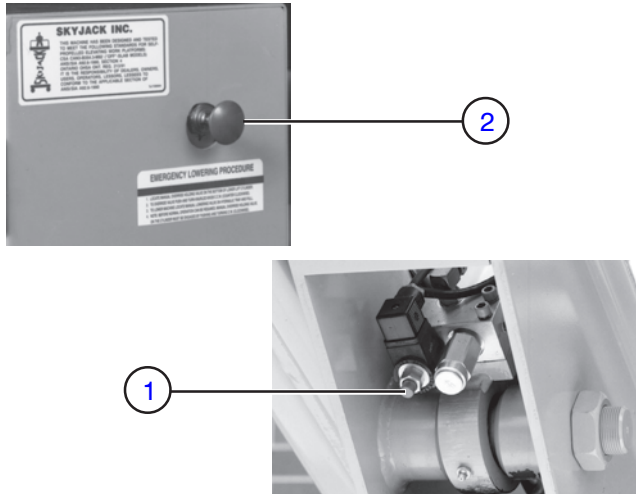


Figure 2-14. Emergency Lowering System

**Emergency Lowering System** - This system allows platform lowering in the event of an emergency or an electrical system failure.

**1. Holding Valve Manual Override Knob** - Located on the holding valve at the bottom of each lift cylinder, these red knurled knobs when depressed and turned counter-clockwise allow hydraulic oil to bypass each holding valve. The red knurled knobs on each holding valve **MUST** be depressed and turned clockwise to restore normal operation. **An access rod for reaching the elevated manual override knob shall be provided for CE units only.**

**2. Emergency Lowering Valve** - Pull out and hold the Emergency Lowering Valve plunger, and the platform will gradually lower. Located at the rear of the hydraulic/electric side cabinet, this pull-type valve when used in conjunction with the holding valve manual overrides, allows platform lowering in the event of an emergency or electrical system failure. Activate all holding valve manual override knobs, then pull and hold the plunger out to lower platform. Release to stop.

## Outrigger Operating Procedures

### A. Before Operation

1. Check overhead clearances and ground obstructions. This will require the operator to move around the platform.
2. Check that the platform is fully lowered. (The outrigger controls are cut out when the platform is raised.)
3. Check that the supporting surfaces under the tires and outrigger pads is firm and capable of supporting machine and related load. **DO NOT** place outrigger pad on a street drain, manhole cover or other supported surfaces.

### B. Operation - Extending The Outriggers

1. Rotate Key Switch to "LIFT" position.
2. Depress and hold the Enable Push-button, then push and hold each Outrigger Up/Down Toggle Switch to "DOWN" position extending each of the outriggers to obtain firm ground contact.
3. **Check outrigger pad contact surface!** Make adjustments as necessary.
4. Again, depress and hold the Enable Push-button, then push and hold each Outrigger Up/Down Toggle Switch to "DOWN" position extending each of the outriggers until the machine is completely supported by the outriggers.
5. Level the machine. **AGAIN, CHECK THE OUTRIGGER PAD CONTACT SURFACE!**
6. To raise the platform, press and hold the Enable Push-Button, then rotate the Up/Down Selector Switch to the "↑" position.

### C. Operation - Retracting The Outriggers

1. Fully lower the platform.

2. Depress and hold the Enable Push-button, then push and hold pairs (front or rear) of Outrigger Up/Down Toggle Switches to "UP" position until the outriggers are fully retracted.

#### Note

Cut out switches are used to protect the outriggers from being damaged. If machine will not drive, visually check to see that ALL outriggers are fully retracted.

### D. During Operation

1. If alarm sounds during operation, the platform is not level. **LOWER THE PLATFORM IMMEDIATELY!** Make the necessary adjustments to level the machine!

## Hydraulic Generator (Option)

1. To start the hydraulic generator, select the "LIFT" position with the "Off/Lift/Drive" key switch.
2. **For models with a generator pushbutton on the main control box:** Ensure the engine is on high throttle by selecting "HIGH" on the "Low/High Throttle Select" switch. Depress the hydraulic generator push-button on the side of the operator's control box. The push-button will illuminate and generator on base will start. To restore normal operation, depress push-button again. The light in push-button will go out and the generator will turn off. **Note:** While the generator push-button switch light is illuminated, the lift and drive circuits in the Operator's Control Box are cut out.  
**For models with a generator toggle switch located on the optional control box:** toggle the generator power switch to the "ON" or "↗" position. Returning it to the "OFF" or "✕" will disable the generator. **Note:** The generator will deactivate if an attempt is made to operate the outriggers, lift the platform or the main control box is switched out of the "LIFT" position.

## Electrical Inverter (Option)

1. Turn the main disconnect switch to the "ON" Position.
2. Turn the "ON/OFF" switch located on the front face of the inverter to the "ON" Position.
3. Start the machine and turn the throttle switch to the high idle setting.

4. Inverter activation is indicated by a glowing green LED on the front face of the inverter.
5. To turn off the inverter, shut down the platform engine and/or slide the "ON/OFF" switch on the inverter to the "OFF" position.

### Note

The inverter will only supply power to the platform when the engine is running and the throttle switch is set to the HIGH idle position. Deselecting the high idle throttle setting or stopping the engine will turn the inverter off.

## Winching and Towing Procedures

### Warning

When Towing, **DO NOT** drive onto a downward slope or brake the towing vehicle rapidly.

## Preparation for Winching Or Towing

### Parking Brake System

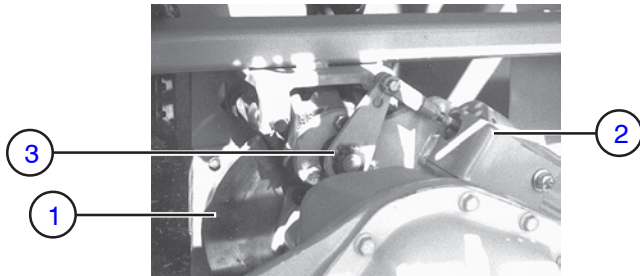


Figure 2-16. Disc Parking Brake

**1 - 3. Parking Brake Disc** -This device disengages the **brake disc(1)** when driving forward or in reverse. A **hydraulic brake cylinder(2)**, linked to a **disc caliper(3)**, engages and disengages a brake disc on the rear axle drive shaft yoke. The brake **MUST** be manually disengaged for pushing, towing or winching. **DO NOT push or tow the work platform onto a downward slope or pull the platform down an incline towards the winch.** The special procedure for manually disengaging the parking brake is as follows:

### Warning

**DO NOT** manually disengage the parking brakes if the work platform is on a slope.

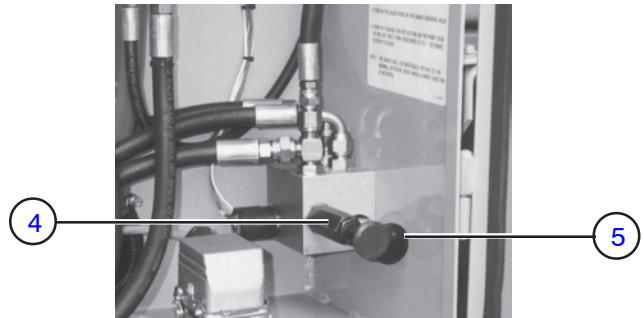


Figure 2-17. Parking Brake Release Hand Pump and Brake Valve Plunger

**4 - 5. Parking Brake Release Hand Pump(4) and Brake Valve Plunger(5)** - Located on the brake manifold in the hydraulic electric side cabinet, this hand operated pump **MUST** be used when pushing, towing or winching the work platform. To release the parking brake:

1. Make sure that the work platform is on level ground. Chock or block the wheels to keep work platform from rolling.
2. Turn Emergency Power Disconnect Switch to "OFF" position.
3. Depress the black plunger on the Brake Valve until the plunger stays in.
4. Grasp the red hand pump plunger and rapidly depress 60 to 80 times until firm resistance is felt. The brake is now released.
5. Remove the wheel chocks or blocks, then push, tow or winch the work platform to the desired location. **When pushing, towing or winching, DO NOT exceed 2 mph (3.2 km/h). DO NOT push or tow the platform onto a downward slope or pull the platform down an incline towards the winch.**
6. Position machine on a firm and level surface. Chock or block the wheels to prevent the platform from rolling or re-engage the parking brake by momentarily activating the drive function.

### Note

The parking brake will reset automatically when the work platform is put back into service.

**Table 2-1. Owner's Annual Inspection Record**

|                             |          |          |          |                            |          |          |          |          |
|-----------------------------|----------|----------|----------|----------------------------|----------|----------|----------|----------|
| <b>MODEL NUMBER</b> _____   |          |          |          | <b>SERIAL NUMBER</b> _____ |          |          |          |          |
| <b>RECORDING<br/>DATE</b>   |          |          |          |                            |          |          |          |          |
| <b>RECORDING<br/>YEAR #</b> | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b>                   | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> |
| <b>OWNER'S<br/>NAME</b>     |          |          |          |                            |          |          |          |          |
| <b>INSPECTED<br/>BY</b>     |          |          |          |                            |          |          |          |          |

**Table 2-2. Tire Specifications**



**WARNING**

**Air pressure can affect stability. Temperature changes can affect air pressure. It is important to visually inspect all tires for proper tire inflation prior to use. Tires should be checked in the operating conditions experienced by end user on a daily basis. Tire inflation pressures must be checked weekly with a calibrated gauge. If the measured pressure is less than the specification, re-inflate to the pressure specified. Tires shall also not be subject to over-inflation above the recommended specification and tolerance range.**

| Tire                           | Fill Specification |            |                       |                               | Usage†        |       |      |       |
|--------------------------------|--------------------|------------|-----------------------|-------------------------------|---------------|-------|------|-------|
| Size                           | Fill Type          | Ply Rating | Pressure<br>Psi (kPa) |                               | 600<br>Series |       |      |       |
|                                |                    |            | Factory               | Listed<br>Sidewall<br>Maximum | 7027          | 7027F | 7135 | 7135F |
| #6 30-10-16.5 NHS              | Air                | 8          | 50*<br>(344.7)*       | 65<br>(448.2)                 | S             |       |      |       |
| #6 30-10-16.5 OTR<br>Outrigger |                    | 10         | 75*<br>(517.1)*       | 75<br>(517.1)                 |               |       | S    |       |
| #7 31-15.5-15 NHS              |                    | 8          | 45*<br>(310.3)*       | Not<br>Available              | O             |       | O    |       |
| #6F 30-10-16.5 NHS             | Solid<br>Urethane  | 8          | **                    |                               |               | S     |      | S††   |
| #7F 31-15.5-15 NHS             |                    | 8          | **                    |                               |               | O     |      | O     |

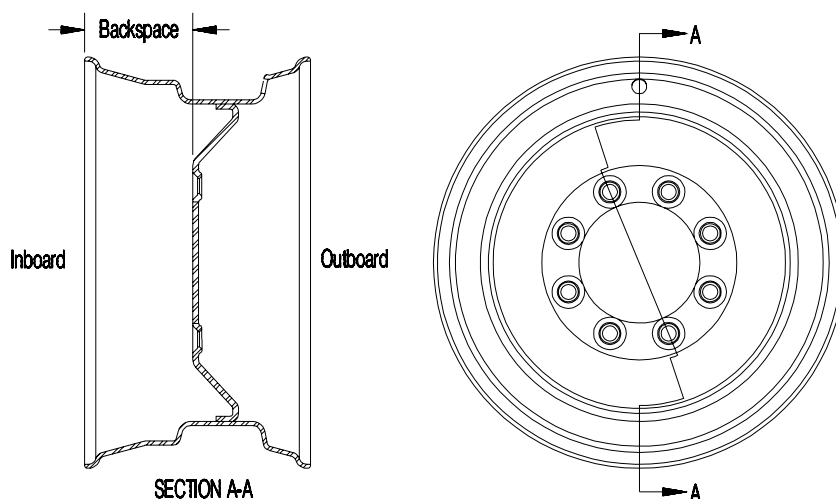
\* Factory preset @ 20°C, Check pressures regularly as tires can lose pressure over time and over different ambient temperatures even under normal conditions.

\*\* Urethane used for filling #6F and #7F tires MUST be 55 durometer.

† Usage: (S)tandard Or (O)ptional

†† #6 foam tire is 30-10-16.5 OTR Outrigger

**Rim Backspace Diagram**



| Rim<br>Size | Backspace inches(mm)                                   |                                          |
|-------------|--------------------------------------------------------|------------------------------------------|
|             | 7027                                                   | 7135                                     |
| #6 & #6F    | 4- <sup>3</sup> / <sub>4</sub> "<br>(121)              | 3- <sup>3</sup> / <sub>4</sub> "<br>(95) |
| #7 & #7F    | All models are 5- <sup>5</sup> / <sub>16</sub> " (135) |                                          |

**Table 2-3. Maximum Platform Capacities (Evenly Distributed)**

| MODEL |                        | Main Platform         |                     | First Extension      |                     | Second Extension |                     | Total Platform Capacity |
|-------|------------------------|-----------------------|---------------------|----------------------|---------------------|------------------|---------------------|-------------------------|
|       |                        | Capacity              | Number Of Occupants | Capacity             | Number Of Occupants | Capacity         | Number Of Occupants |                         |
| 7027  | No extension Platform  | 1500 lbs.<br>(680 kg) | 5                   | -                    | -                   | Not Available    |                     | 1500 lbs.<br>(680 kg)   |
|       | One Extension Platform | 1000 lbs.<br>(454 kg) | 3                   | 500 lbs.<br>(227 kg) | 2                   |                  |                     | 1500 lbs.<br>(680 kg)   |
| 7135  | One Extension Platform | 650 lbs.<br>(295 kg)  | 3                   | 350 lbs.<br>(159 kg) | 1                   |                  |                     | 1000 lbs.<br>(454 kg)   |

**NOTE: Occupants AND materials are not to exceed rated load.**

Capacities listed are for standard machines equipped with #6 tires except for model 9250A which is equipped with #6 foam filled tires.

Refer to capacity label at sides of platform for additional information and for models equipped with options.

**Table 2-4. Maintenance And Inspection Schedule**

|                                                                                                                                                                                                                                                                                                                                                                                | Daily       | Weekly | Monthly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3 Months | 6 Months | 12 Months*  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|-------------|
| <b>Engine</b>                                                                                                                                                                                                                                                                                                                                                                  |             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          |             |
| Fuel leaks                                                                                                                                                                                                                                                                                                                                                                     | A           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | A           |
| Engine oils                                                                                                                                                                                                                                                                                                                                                                    | H & I       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | H & I       |
| Engine RPM                                                                                                                                                                                                                                                                                                                                                                     |             |        | G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          | G           |
| Fuel filter                                                                                                                                                                                                                                                                                                                                                                    |             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | F        | F           |
| Belts/Hoses                                                                                                                                                                                                                                                                                                                                                                    |             |        | A & C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          | A & C       |
| Muffler                                                                                                                                                                                                                                                                                                                                                                        |             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | B, C & J |          | B, C & J    |
| Air cleaner                                                                                                                                                                                                                                                                                                                                                                    |             |        | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | I        | A & I       |
| Fuel tank cap                                                                                                                                                                                                                                                                                                                                                                  | B & C       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | B & C       |
| Coolant level                                                                                                                                                                                                                                                                                                                                                                  | A & L       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | A & L       |
| <b>Mechanical</b>                                                                                                                                                                                                                                                                                                                                                              |             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          |             |
| Structural damage/welds                                                                                                                                                                                                                                                                                                                                                        | A           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | A           |
| Locking Pins/Retainers                                                                                                                                                                                                                                                                                                                                                         | A & B       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | C        |          | A, B & C    |
| Parking brake                                                                                                                                                                                                                                                                                                                                                                  | B           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | B           |
| Tires/wheels & fasteners                                                                                                                                                                                                                                                                                                                                                       | A, B, C & R | O & S  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | A, B, C & O |
| Guides/ rollers & slider pads                                                                                                                                                                                                                                                                                                                                                  | A, B & N    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | A, B & N    |
| Railings/Entry chains/gates                                                                                                                                                                                                                                                                                                                                                    | A, B & C    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | A, B & C    |
| Bolts and fasteners                                                                                                                                                                                                                                                                                                                                                            | A           | C      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | A & C       |
| Safety Bar                                                                                                                                                                                                                                                                                                                                                                     |             | B      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | B           |
| Gear Oil**                                                                                                                                                                                                                                                                                                                                                                     |             |        | A & H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          | A, H & F    |
| Rust                                                                                                                                                                                                                                                                                                                                                                           |             |        | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          | A           |
| Wheel Bearings & King pins                                                                                                                                                                                                                                                                                                                                                     | A           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | B & E    |          | A, B & E    |
| Steering cylinder & tie rod                                                                                                                                                                                                                                                                                                                                                    | A           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | B & E    |          | A, B & E    |
| <b>Electrical</b>                                                                                                                                                                                                                                                                                                                                                              |             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          |             |
| Battery fluid level                                                                                                                                                                                                                                                                                                                                                            | A           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | A           |
| Control switches/Indicator Lights                                                                                                                                                                                                                                                                                                                                              | A & B       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | A & B       |
| Cords & wiring                                                                                                                                                                                                                                                                                                                                                                 | A           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | A           |
| Battery terminals                                                                                                                                                                                                                                                                                                                                                              |             |        | A & C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          | A & C       |
| Generator/receptacle                                                                                                                                                                                                                                                                                                                                                           | A           | B      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | A & B       |
| Terminals & plugs                                                                                                                                                                                                                                                                                                                                                              |             |        | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          | C           |
| Limit Switches                                                                                                                                                                                                                                                                                                                                                                 | B           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | B           |
| Tilt Switch                                                                                                                                                                                                                                                                                                                                                                    | A & B       | B      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | A & B       |
| <b>Hydraulic</b>                                                                                                                                                                                                                                                                                                                                                               |             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          |             |
| Hydraulic oil                                                                                                                                                                                                                                                                                                                                                                  | H           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | H & Q       |
| Hydraulic hoses/fittings                                                                                                                                                                                                                                                                                                                                                       | A & P       |        | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          | A, C & P    |
| Lift/lowering speeds                                                                                                                                                                                                                                                                                                                                                           |             | G      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | G           |
| Cylinders                                                                                                                                                                                                                                                                                                                                                                      |             | A & B  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | A & B       |
| Emergency lowering                                                                                                                                                                                                                                                                                                                                                             |             | B      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | B           |
| Lift capacity                                                                                                                                                                                                                                                                                                                                                                  |             |        | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          | D           |
| Hydraulic oil & oil filter                                                                                                                                                                                                                                                                                                                                                     |             |        | F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          | F           |
| <b>Miscellaneous</b>                                                                                                                                                                                                                                                                                                                                                           |             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          |             |
| Labels and manual                                                                                                                                                                                                                                                                                                                                                              | A, K & M    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | A, K & M    |
| Lanyard Attachments                                                                                                                                                                                                                                                                                                                                                            | A & C       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          | A & C       |
| <b>Notes</b>                                                                                                                                                                                                                                                                                                                                                                   |             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          |             |
| A. Visually Inspect.<br>B. Check operation.<br>C. Check tightness.<br>D. Check relief valve setting. Refer to serial number nameplate<br>E. Lubricate.<br>F. Replace.<br>G. Refer to Table 1-1 specifications and features.<br>H. Check oil level.<br>I. Refer to engine manual.<br>J. Check noise level.<br>K. Replace if missing or illegible.<br>L. Check only when cooled. |             |        | M. Proper manual must be in box<br>N. Ensure there is no metal to metal contact with slider, slider side or running surface. Check for free movement of surface. Also check for free movement of the slider pin through the slider and pad.<br>O. Ensure proper torquing procedure and sequence is followed.<br>P. Check for leaks.<br>Q. Have oil sample tested.<br>R. Visually inspect for proper inflation.<br>S. Check pressure with a calibrated gauge. (Refer To Table 2-2.)<br>* Record inspection date and signature<br>** Gear Oil Requirements: Axle: ESSO GX 85W-140<br>Center Drive: ESSO GX 85W-140 |          |          |             |