

SKYJACK™

SJIII SERIES

Battery Operated Self-Propelled
Mobile Elevating Work Platform



SJIII SERIES

The COMPACTS and CONVENTIONALS
Models 3015, 3219, 3220, 4620,
4626, 4830, 4832, 6826 and 6832

OPERATING MANUAL

Revised 99-04-01

Printed in CANADA

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

OPERATOR SAFETY REMINDER

The National Safety Council reminds us that most accidents are caused by the failure of some individuals to follow simple and fundamental safety rules and precautions. Common sense dictates the use of appropriate safety devices and protective clothing to protect your eyes, hands, feet and body.

You, as a careful operator, are the best insurance against an accident. Therefore, proper usage of this work platform is mandatory. The following pages of this manual should be read and understood completely before operating the work platform. Any modifications from the original design are strictly forbidden without written permission from SKYJACK, Inc.

SERVICE POLICY AND WARRANTY

SKYJACK, Inc. warrants each new SJIII Series work platform to be free of defective parts and workmanship for first 12 months. Any defective part will be replaced or repaired by your local SKYJACK dealer at no charge for parts or labor. Refer to the Warranty Statement for extensions or exclusions.

NOTE

SKYJACK, Inc. is continuously improving and expanding product features on it's equipment: therefore, specifications and dimensions are subject to change without notice.



**This Safety alert Symbol means
Attention! Become Alert!
Your Safety Is Involved**

The Safety Alert Symbol identifies important safety messages on machines, safety signs, in manuals, or elsewhere. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

SCOPE OF THIS MANUAL

This manual applies to the ANSI/SIA, CSA and CE versions of the SJIII work platform models listed on Page 7. Equipment identified with "ANSI/SIA" meets the ANSI/SIA-A92.6 standards. Equipment identified with "CSA" meets CAN3-B354.2&.3-M82 standards. Equipment identified with "CE" meets the requirements for the European countries, i.e. Machinery Directive 89/392/EEC and EMC Directive 89/336/EEC and the corresponding EN standards.

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NOTES

PURPOSE OF EQUIPMENT

The SKYJACK SJIII Series Work Platform is designed to transport and raise personnel, tools and materials to overhead work areas.

USE OF EQUIPMENT

The work platform (Figure 1-2. Page 9) is a highly maneuverable, mobile work station. Lifting and driving **MUST** be on a flat, level, compacted surface.

WARNINGS

The operator **MUST** read and completely understand the safety panel labels (Figure 1-1. Page 5) and **ALL** other warnings in this manual and on the work platform (Ref. Page 6). Compare the labels on the work platform with the labels found throughout Section 2 of this manual. If any labels are damaged or missing, replace them immediately.

DESCRIPTION

The work platform consists of three major assemblies, the platform, lifting mechanism and the base. An operator's control box is mounted on the platform railing. Auxiliary and emergency controls are located at the base.

PLATFORM

The platform is constructed of a tubular support frame, a skid-resistant deck surface, and 40" to 43-1/2" (1016-1105mm) high railings (depending on model) with 6" toe boards and mid-rails. The platform can be entered from the rear through an entry chain or optional spring-returned gate with latch. The platform is also equipped with an extension platform.

OPERATOR'S CONTROL BOX

A removable control box, mounted at the right front of the platform, contains controls for work platform motion and emergency stopping.

MANUAL STORAGE BOX

This weather resistant box is mounted at the front of the platform directly below the safety panel. It contains the Operating Manual, Operating/Maintenance and Parts Manual and other important documentation. The Operating Manual for this make and model work platform **MUST** remain with the work platform and should be stored in this box.



LIFTING MECHANISM

The lifting mechanism is constructed from steel tubing making up a scissor-type assembly. The scissor-type assembly is raised and lowered by single-acting hydraulic lift cylinder(s). A pump, driven by a motor, provides hydraulic power to the lift cylinder(s). **A safety bar** located at the front of the lifting mechanism prevents (when properly positioned) the scissor-type assembly from being lowered while maintenance or repairs are being performed within the lifting mechanism. (See page 13)

BASE

The base is a rigid one-piece weldment which supports two swing-out trays. **On Models 3015, 3219, 3220, 4620, 4626, 4830 and 4832**, a mechanically actuated angle, located under the outside of the trays, rotates when lifting. This mechanism provides pothole protection for elevated driving (see page 14). One tray contains the hydraulic and electrical components. The other tray contains the battery charger and four (4) 6 volt batteries . **On Models 3015 and 3219**; the front axle has two hydraulic motor-driven wheels , steerable by a hydraulic cylinder. The rear axle is fixed and has two spring-applied hydraulically-released parking brakes. **On Models 3220, 4620, 4626, 4830, 4832, 6826 and 6832**; the front axle has two non-driven wheels, steerable by a hydraulic cylinder. The rear axle has two hydraulic motor driven wheels and two spring-applied, hydraulically-released parking brakes.

LOWERING WARNING SYSTEM (CE only)

Models 3015, 3219, 3220, 4620, 4626, 4830 and 4832 are equipped with a lowering warning system as standard equipment (See page 25).

SCISSOR GUARDS (CE only)


Models 6826 and 6832 are equipped with rigid scissor guards mounted on the base as standard equipment.

SERIAL NUMBER NAMEPLATE

The serial number nameplate, located at the rear of the machine, lists the model number, serial number, machine weight, drive height, capacity and maximum no. of persons, maximum speed, maximum manual force, maximum incline, platform height, voltage, system pressure, lift pressure, ground pressure (tire contact pressure), and date manufactured. Use this information for proper operation and maintenance and when ordering service parts.


OPTIONAL ACCESSORIES

The SKYJACK SJIII Series Work Platform is designed to accept a variety of optional accessories. These are listed in (Page 8 Specifications and Features. Operating instructions for these options (if required) are located in Section 2 of this manual.




DANGER


TIP-OVER HAZARDS



DO NOT DRIVE NEAR DROP-OFFS, HOLES
OPEN ELEVATOR SHAFTS, AND LOADING DOCKS.




**DO NOT RAISE PLATFORM ON
UNEVEN OR SOFT SURFACES
DO NOT DRIVE ONTO UNEVEN
OR SOFT SURFACES WHEN
ELEVATED.**





**DO NOT RAISE PLATFORM IN
WINDY OR GUSTY
CONDITIONS.**

ELECTROCUTION HAZARD

THIS MACHINE IS NOT INSULATED. MAINTAIN SAFE CLEARANCES FROM ELECTRICAL POWER LINES AND APPARATUS.
YOU MUST ALLOW FOR PLATFORM SWAY, ROCK, OR SAG. THIS PLATFORM DOES NOT PROVIDE PROTECTION FROM CONTACT WITH OR PROXIMITY TO AN ELECTRICALLY CHARGED CONDUCTOR.




VOLTAGE PHASE TO (0 TO 300V)	MINIMUM SAFE FEET (METERS) AVOID CONTACT	
OVER 300V TO	10	3.05
OVER 50KV TO	15	4.60
OVER 200KV TO	20	6.10
OVER 350KV TO	25	7.62
OVER 500KV TO	35	10.67
OVER 750KV TO	45	13.72

**DO NOT RAISE PLATFORM ON SLOPE OR DRIVE
ONTO SLOPE WHEN ELEVATED.**

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FAILURE TO AVOID THESE HAZARDS WILL
RESULT IN DEATH OR SERIOUS INJURY!



WARNING

OTHER HAZARDS

1. DO NOT OVERLOAD.
2. DO NOT USE WITHOUT RAILINGS, LOCK PINS, AND ENTRY GATE/CHAIN/BAR IN PLACE.
3. DO NOT USE WITHOUT LOCK PINS INSTALLED ON HINGED RAILINGS.
4. DO NOT USE IF WORK PLATFORM IS NOT WORKING PROPERLY OR IF ANY PART IS DAMAGED OR WORN.
5. DO NOT STAND OR SIT ON GUARDRAILS.
6. DO NOT ATTACH ROPES OR CHAINS TO GUARDRAILS OR USE AS A CRANE.

7. DO NOT USE UNDER INFLUENCE OF ALCOHOL OR DRUGS.
8. DO NOT OVERRIDE SAFETY DEVICES.
9. DO NOT LEAVE MACHINE UNATTENDED WITH KEY IN SWITCH.
10. DO NOT RAISE PLATFORM WHILE MACHINE IS ON A TRUCK, FORK LIFT, OR OTHER DEVICE OR VEHICLE.
11. DO NOT USE LADDER, SCAFFOLDING, OR OTHER DEVICES TO INCREASE THE WORKING HEIGHT OF PLATFORM.
12. DO NOT USE WITH IMPROPERLY INFLATED/DAMAGED TIRES OR WHEELS.
13. DO NOT USE WHEELS OR TIRES THAT ARE NOT ORIGINAL MANUFACTURER'S EQUIPMENT.

*FAILURE TO AVOID THESE HAZARDS COULD
RESULT IN DEATH OR SERIOUS INJURY!*

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Figure 1-1. Safety Panel Labels

(Located at the front center of the platform on the railing)

DO NOT exert excessive side forces on platform while elevated.

DO NOT overload, the lift relief valve does not protect against overloading when the platform is elevated.

DO NOT alter or disable limit switches or other safety devices.

DO NOT raise your platform in windy or gusty conditions.

DO NOT exceed the rated capacity of your scissorlift and make sure the load is evenly distributed on the platform.



DO NOT operate on surfaces not capable of holding weight of the work platform including the rated load, e.g. covers, drains, and trenches.

BE AWARE of overhead obstacles, and poorly lit areas in case of overhead obstacles.

DO NOT elevate the work platform if it is not on firm level surfaces. Avoid pot holes, loading docks, debris, drop offs and surfaces that may affect the stability of your work platform.

DO NOT climb or descend a grade steeper than 20% (SJIII Compacts), or 25% (SJIII Conventionals). Elevated driving must only be done on firm level surfaces. (Ref. Table 1-1)

ENSURE that there is no person(s) in the path of travel.



An Operator Should Not Use Any Work Platform That:

Has ladders, scaffolding or other devices mounted on it to increase its' size or work height.

Does not have a clean, uncluttered work area.

Does not appear to be working properly.

Has been damaged or appears to have worn or missing parts.

Has alterations or modifications not approved by the manufacturer.

Has safety devices which have been altered or disabled.

Table 1-1. Specifications and Features

MODEL	WEIGHT	WIDTH	LENGTH	HEIGHT			PLATFORM			TIRES	SPEED (Max.)		GRAD-ABILITY
				Working	Platform	Lowered	Drive**	Size	Capacity*		Drive	Raise	
3015	2360 lbs. (1070kg)	30.50" (.77m)	66.50" (1.69m)	21.0' (6.4m)	15.0' (4.6m)	78.0" (1.98m)	FULL	28" x 64" (.71x1.63m)	500 lbs. (227kg)	@	2 mph (3.2km/h)	21 sec.	20% +
3219	2600 lbs. (1179kg)	32.50" (.83m)	66.50" (1.69m)	25.0' (7.6m)	19.0' (5.8m)	79.0" (2.01m)	FULL	28" x 64" (.71x1.63m)	500 lbs. (227kg)	@	2 mph (3.2km/h)	30 sec.	20% +
3220	3860 lbs. (1751kg)	32.00" (.81m)	89.00" (2.26m)	26.0' (7.9m)	20.0' (6.1m)	79.9" (2.03m)	FULL	28" x 81" (.71x2.05m)	800 lbs. (363kg)	@@	2 mph (3.2km/h)	35 sec.	25%
4620	3593 lbs. (1630kg)	46.00" (1.17m)	89.00" (2.26m)	26.0' (7.9m)	20.0' (6.1m)	80.2" (2.03m)	FULL	42" x 81" (1.07x2.05m)	1100 lbs. (499kg)	@@	2 mph (3.2km/h)	35 sec.	25%
4626	4198 lbs. (1904kg)	46.00" (1.17m)	89.00" (2.26m)	32.0' (9.8m)	26.0' (7.9m)	89.0" (2.26m)	FULL	42" x 81" (1.07x2.05m)	850 lbs. (386kg)	@@	2 mph (3.2km/h)	44 sec.	25%
4830	5630 lbs. (2554kg)	48.00" (1.22m)	89.00" (2.26m)	36.0' (11.0m)	30.0' (9.1m)	93.5" (2.37m)	FULL	42" x 81" (1.07x2.05m)	700 lbs. (317kg)	@@	2 mph (3.2km/h)	45 sec.	25%
4832	5630 lbs. (2554kg)	48.00" (1.22m)	89.00" (2.26m)	38.0' (11.6m)	32.0' (9.8m)	93.5" (2.37m)	FULL	42" x 81" (1.07x2.05m)	600 lbs. (272kg)	@@	2 mph (3.2km/h)	45 sec.	25%
6826	5020 lbs. (2277kg)	68.00" (1.73m)	99.25" (2.52m)	32.0' (9.8m)	26.0' (7.9m)	95.0" (2.41m)	FULL	60" x 81" (1.53x2.05m)	1200 lbs. (545kg)	@@@	2 mph (3.2km/h)	47 sec.	25%
6832	5480 lbs. (2486kg)	68.00" (1.73m)	99.25" (2.52m)	38.0' (11.6m)	32.0' (9.8m)	99.0" (2.51m)	FULL	60" x 81" (1.53x2.05m)	1000 lbs. (454kg)	@@@	2 mph (3.2km/h)	51 sec.	25%

* Overall capacity with manual extension platform shown - occupants and materials not to exceed rated load. NOTE: Capacities may be reduced when equipped with powered extension platform. Refer to Table 3-2 on Page 37 for additional information.

@ 12 x 4.00 x 8 Non-Marking Solid Rubber @@ 16 x 4.00 x 8 Non-Marking Solid Rubber @@@ 23 x 10.5 x 12 Foam Filled

**Drive heights apply to all ANSI machines. For drive heights to CSA and CE machine standards contact SkyJack Inc.

STANDARD FEATURES
(ANSI & CE)

- Operator Horn
- Descent Alarm
- Proportional Joystick Forward/Reverse and Lift Control
- Swing-out Side Trays
- Two Spring-Applied Hydraulically-Released Parking Brakes
- Puncture-Proof, Solid Rubber Non-Marking Tires
(All Models Except 6826 and 6832)
- Manual Lowering System With Lift Cylinder Holding Valve(s)
- Tilt Alarm With Lift/Drive Cutout
- 3 Foot Extension Platform
- Lanyard Attachment Rings
- Front Wheel Drive With Tight Turning Radius
(Models 3015 and 3219)
- Lowering Warning System (CE only)
(Models 3015, 3219, 3220, 4620, 4626 and 4830, 4832)
- Scissor Guards (CE only) (Models 6826 and 6832)
- Spring-Loaded Half-Height Gate (CE only)
- AC Outlet on Platform

OPTIONAL EQUIPMENT
(ANSI & CE)

- Spring-Loaded Half-Height Gate (ANSI only)
- Spring-Loaded Full-Height Gate
- Movement Alarm
- Flashing Amber Light
- 800W AC Generator
- EE-Rating Package
- Air (Power) Package
(UL Approved, Class 1, Div 1 Group D)
(All Models Except 3015 and 3219)
- Propane/Gasoline or Diesel Engine Package
(All Models Except 3015, 3219 and 3220)
- “Shop Air” Line to Platform
- Hydraulically Powered Extension Platform
- Puncture-Proof Solid Rubber Black Tires
- Lowering Warning System (ANSI only)
(Models 3015, 3219, 3220, 4620, 4626 and 4830)
- Scissor Guards (ANSI only) (Models 6826 and 6832)
- Light duty Pipe Rack

SECTION 1

WORK PLATFORM MAJOR COMPONENT IDENTIFICATION

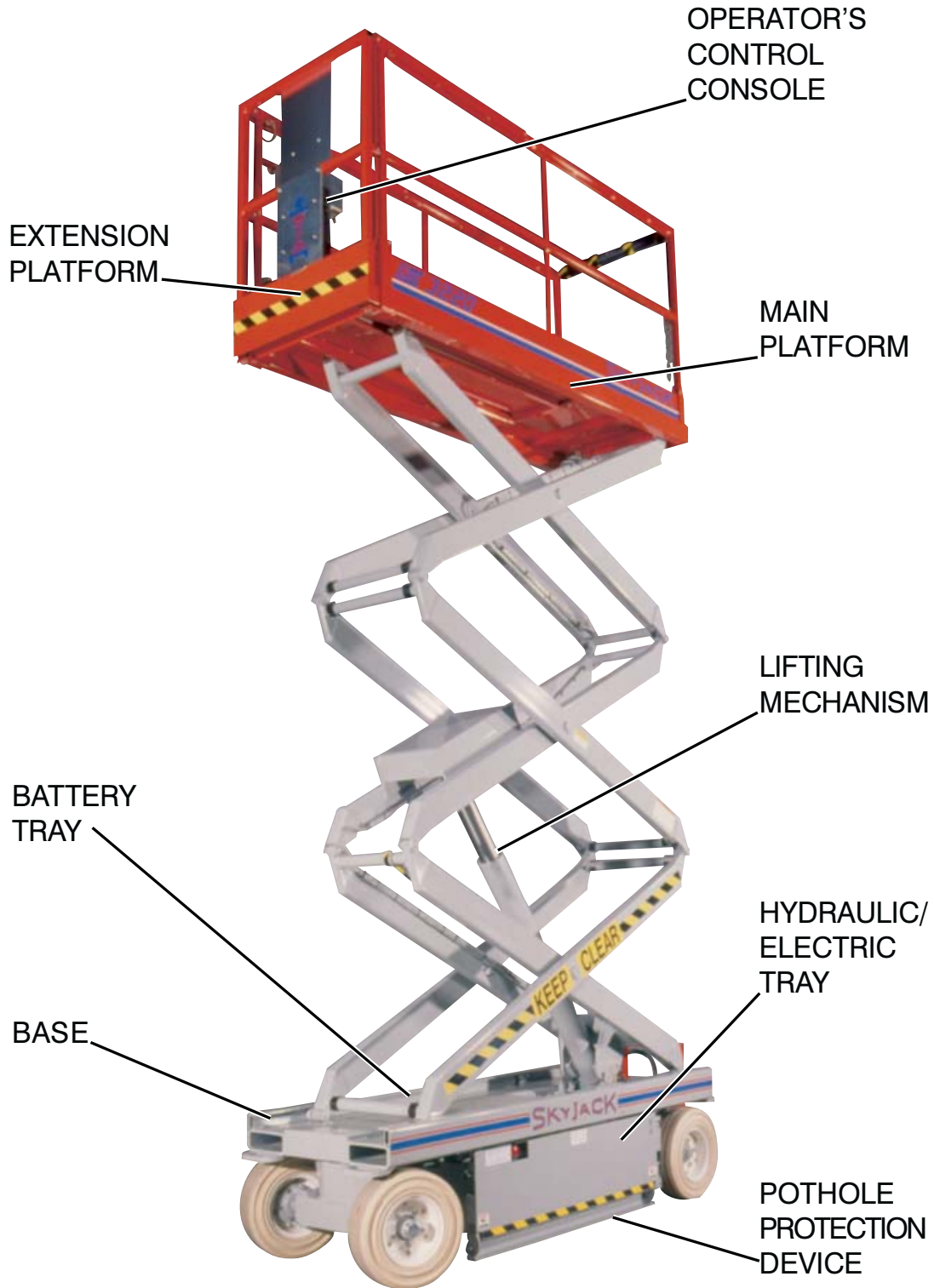


Figure 1-2. SJIII Series Work Platform
(Model 3219 shown)

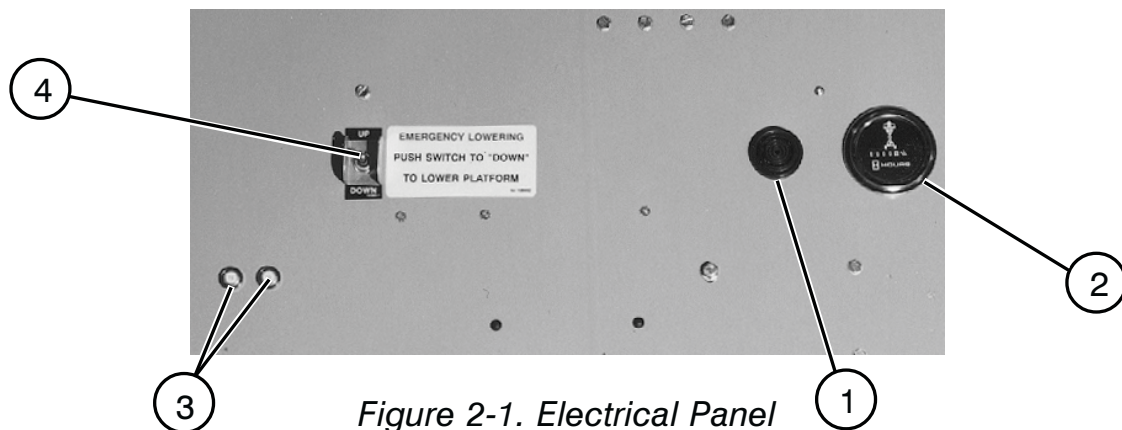
SECTION 2

OPERATION CONTROLS IDENTIFICATION AND PROCEDURES

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 on Pages 19 thru 33. Both standard and optional controls are identified in this section. Therefore, some controls may be included that are not furnished on your work platform.

ELECTRICAL PANEL



*Figure 2-1. Electrical Panel
(Model 3219 “ANSI/SIA and CSA” shown)*

1. Buzzer Alarm
2. Hourmeter
3. 15 AMP Circuit Breakers Resets
4. Up/Down Toggle Switch (ANSI/SIA and CSA)

ELECTRICAL PANEL

This control station is located in the Hydraulic/Electric Tray. It contains the following controls:

1. Buzzer Alarm

This audible pulse alarm sounds when platform is being electrically lowered. As an option this alarm will also sound when other control functions are selected.

2. Hourmeter

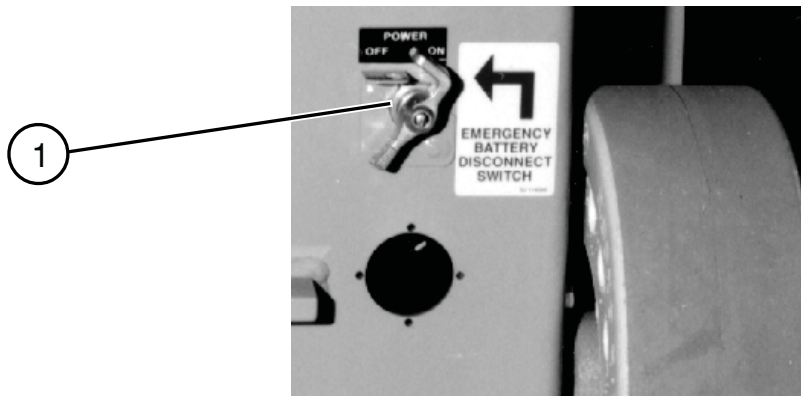
Activated when the pump/motor runs, this meter records work platform operating time.

3. 15 AMP Circuit Breaker Resets

In the event of a power overload or positive circuit grounding, circuit breaker will pop out. Make the necessary corrections, then depress the push-button to reset.

4. Up/Down Toggle Switch (ANSI/SIA and CSA)

Selecting and holding this toggle type switch to “UP” position will raise platform to desired height. Release switch to stop. Selecting and holding switch to “DOWN” position will lower platform to desired height. Release switch to stop.

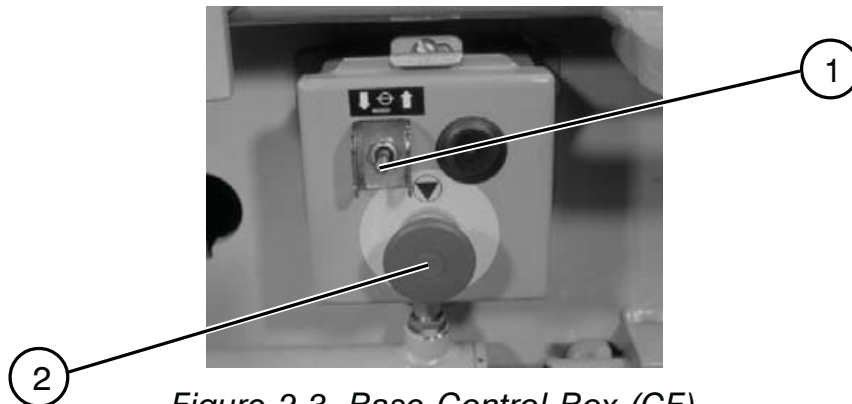
EMERGENCY BATTERY DISCONNECT SWITCH

*Figure 2-2. Emergency Battery Disconnect Switch
(Model 3219 shown)*

1. Emergency Battery Disconnect Switch

1. Emergency Battery Disconnect Switch

Located on the rear of the base, this switch, when in “OFF” position, disconnects power to all control and power circuits. Switch **MUST** be in “ON” position to operate any control circuit.

BASE CONTROL BOX (CE)

*Figure 2-3. Base Control Box (CE)
(Model 3220 shown)*

1. Platform Up/Down Toggle Switch
2. Emergency Stop Button

BASE CONTROL BOX (CE)

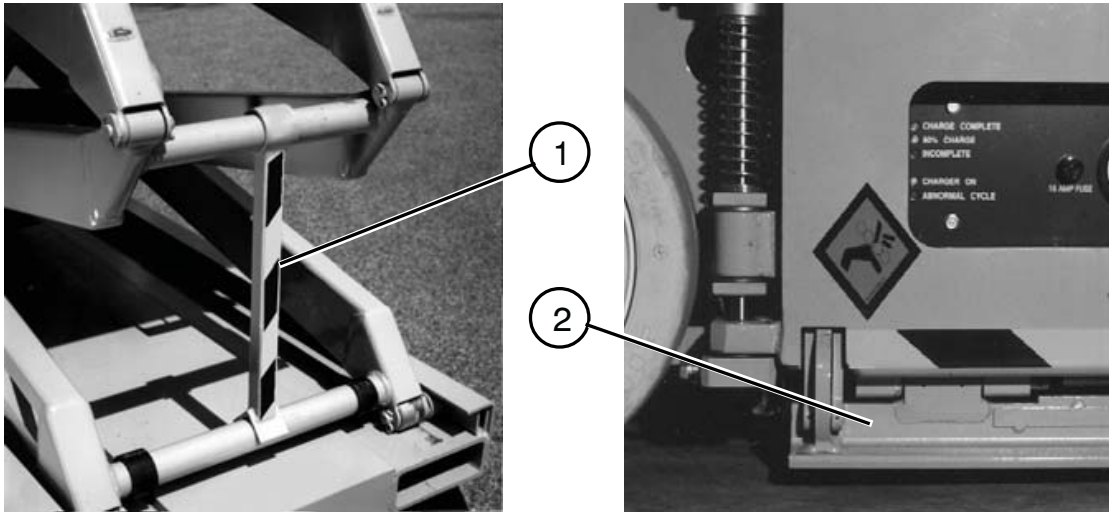
This metal control station is mounted on the rear of the base. It contains the following controls:

1. Platform Up/Down Toggle Switch

To raise the platform, select “BASE” position with the Base/Off/Platform Select Key Switch (Figure 2-5. on Page 15), then push this toggle-type switch to the “↑” (up) position. Release switch to stop. To lower the platform, select “BASE” position with the Base/Off/Platform Select Key Switch (Figure 2-5. on Page 15), then push this toggle-type switch to the “↓” (down) position. Release switch to stop.

2. Emergency Stop Button

When struck, this red push-button switch disconnects power to both the base and the platform control boxes. In the event of an emergency or at work platform shut down, push the button in. To restore power, simply pull the button out.

SAFETY BAR & POTHOLE PROTECTION DEVICE

*Figure 2-4. Safety Bar and Pothole Protection Device
(Model 3219 shown)*

1. Safety Bar
2. Pothole Protection Device

1. SAFETY BAR

Designed to support the scissors assembly (when properly positioned), the safety bar **MUST** be used when inspecting or when performing maintenance or repairs within the scissor assembly with the platform raised. To use the safety bar, follow the procedure on the safety bar label on the base.



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

2. POTHOLE PROTECTION DEVICE

This device consists of a mechanically actuated angle, located under the outside of the trays, which automatically rotates for a reduced ground clearance when elevated. If this device is not fully lowered, the drive function will be disabled.



DO NOT drive elevated in areas where electrical cords or debris is in the path of travel.

DO NOT drive elevated into holes, depressions, trenches, shafts or soft or uneven surfaces.



Personnel on ground **MUST** stay clear of pot hole protection bar.

PLATFORM CONTROLS

Operator's Control Box

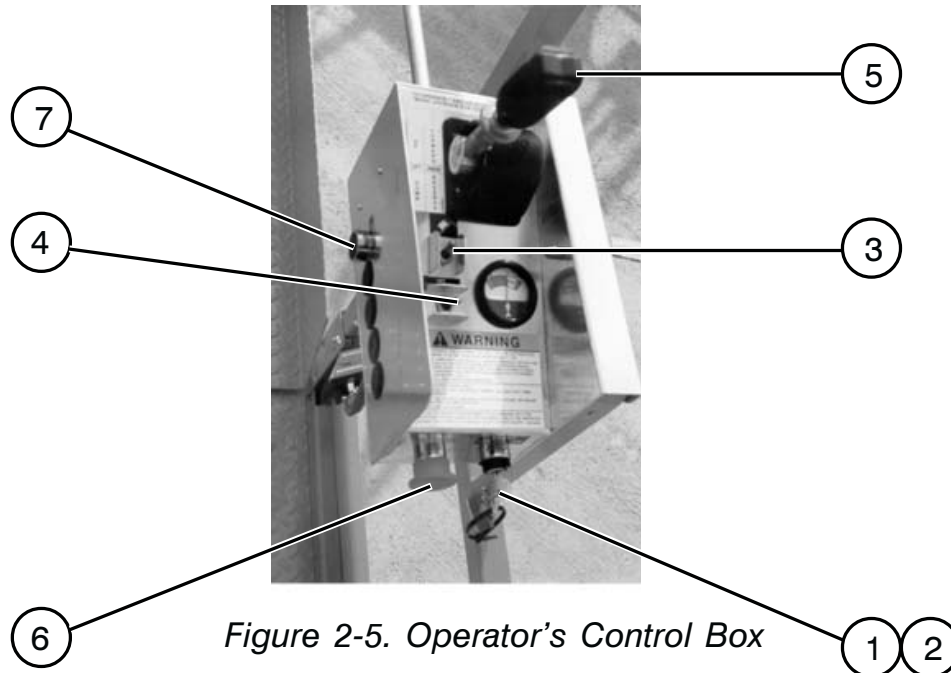


Figure 2-5. Operator's Control Box

1. Off/On Key Switch (ANSI/SIA and CSA) (shown)
2. Base/Off/Platform Select Key Switch (CE)
3. High/Normal Torque Select Toggle Switch
(Models 3220, 4620, 4626, 4830, 4832, 6826 and 6832 only)
4. Lift/Off/Drive Select Toggle Switch
5. Proportional Controller
6. Emergency Stop Button
7. Operator Horn Push-Button

OPERATOR'S CONTROL BOX

This metal control station is mounted at the right front of the platform. It contains the following controls:

1. Off/On Key Switch (ANSI/SIA and CSA)

Key to "OFF" position disconnects power to the control circuit in the operator's control box. Key to "ON" position energizes the control circuit.

2. Base/Off/Platform Select Key Switch (CE)

Key to "PLATFORM" position directs power to the control circuit in the operator's control box. Key to "OFF" position disconnects power to the control circuit in the operator's control box. Key to "BASE" position directs power to the base control box at the rear of the work platform.

3. High/Normal Torque Select Toggle Switch (Models 3220, 4620, 4626, 4830, 4832, 6826 and 6832 only)

This switch selects “HIGH” torque (low speed) or “NORMAL” torque (high speed). Select “HIGH” position when climbing grades or when loading or unloading the work platform, select “NORMAL” position when traveling on a level surface with the platform fully lowered. **Note: DO NOT climb a grade with the platform elevated.**

4. Lift/Off/Drive Select Toggle Switch

If “LIFT” is selected, the lift circuit is energized. “OFF” disconnects power from both lift and drive circuits. If “DRIVE” is selected, the drive circuit is energized.

5. Proportional Controller

This one-hand lever controls proportional drive/lift motion and steer motion. This control returns to neutral and locks when released. To drive forward, select “DRIVE” position with the Lift/Off/Drive Select Toggle Switch, then lift the controller lock ring and push the controller handle forward to the desired speed. Release to stop. To drive in reverse, select “DRIVE” position with the Lift/Off/Drive Select Toggle Switch, then lift the controller lock ring and pull the controller handle backward to the desired speed. Release to stop. To steer, select “DRIVE”, then depress the side of the rocker on top of the controller handle in the direction you wish to steer. To raise the platform, select “LIFT” position with the Lift/Off/Drive Select Toggle Switch, then lift the controller lock ring and push the controller handle forward to the desired lift speed. Release to stop. To lower the platform, select “LIFT” position with the Lift/Off/Drive Select Toggle switch, then lift the lock ring and pull the controller handle backward to desired height. Release to stop. **NOTE: Platform lowering and left/right steering are not proportional .**

6. Emergency Stop Button

This red “mushroom-head” shaped button switch is designed to disengage power to the platform controls (**ANSI/SIA, CSA and CE**) when struck in the event of an emergency or at work platform shut down. (**CE models will also disengage power to the base controls**). To restore power to the platform (and base) controls, simply pull button out.

7. 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.

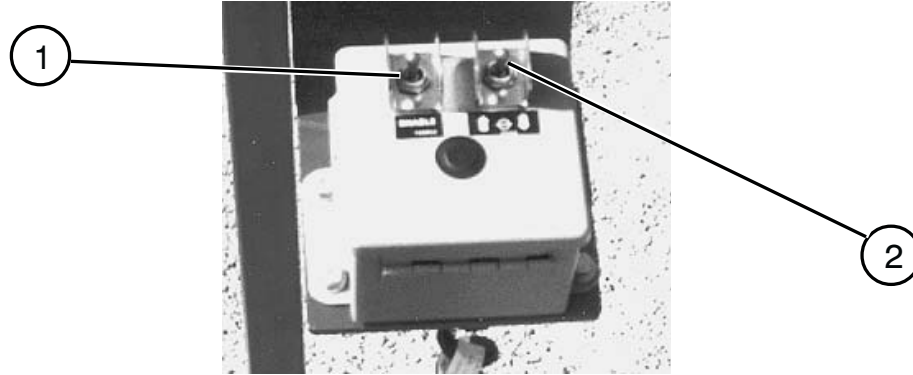
POWERED EXTENSION PLATFORM CONTROL BOX

Figure 2-6. Powered Extension Platform Control Box

1. Enable Switch
2. Platform Extend/Retract Selector Switch

POWERED EXTENSION 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 Selector Switch. It must be used while extending or retracting the extension platform.

2. Platform Extend/Retract Selector Switch

To extend the platform, select “LIFT” position with Lift/Off/Drive Select Switch (Figure 2-6.), then while holding the enable switch push this selector switch to “↑” (extend) position until desired extension is reached. Release switch to stop. To retract the platform, select “LIFT” position with Lift/Off/Drive Select Switch (Figure 2-6.), then while holding the enable switch push the selector switch to “↓” (retract) position until desired retraction is reached. Release switch to stop.

NOTE

All models are drivable with any extension platform extended 3 feet or less. An interlock limit switch cuts out drive when the powered extension platform is extended beyond 3 feet.

FOLD-DOWN GUARDRAIL SYSTEM



Figure 2-7. Fold-Down Guardrail System

1. Guardrail Locking Pin With/Lanyard

FOLD-DOWN GUARDRAIL SYSTEM

This system when folded down, reduces the shut height of the work platform for travelling through standard doorways.

1. **Guardrail Locking Pin With/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 2-8.)



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!**

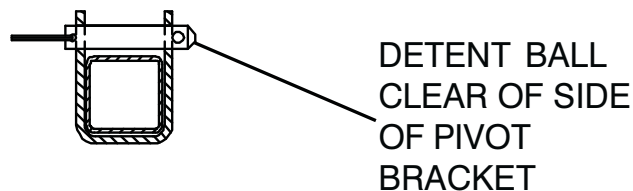


Figure 2-8. Correct Position of Locking Pin

OPERATING PROCEDURES

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

SETUP PROCEDURES

The following steps are normally required for equipment being put into service for the first time. After the equipment has been unloaded:

1. Remove all packing materials and inspect for damage incurred during transport.

NOTE

Report any damage to delivery carrier immediately.

2. Inspect work platform thoroughly and remove any foreign objects.
3. If equipped with a fold-down guardrail system, swing up and lock all guardrails in place with locking pins. (Refer to Figure 2-8. Page 18).
4. Unlock and swing out the battery tray and hydraulic/electric tray.
5. In the battery tray, check the water level in all four batteries. If plates are not covered, carefully add distilled or demineralized water. If needed, check the specific gravity in each battery. It should be 1.260 to 1.275.



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 if discomfort continues.

6. Connect the battery charger cord to the proper voltage source and charge the batteries. (Refer to "Battery Charging Procedures", Page 30.)

7. When charger cycle is complete, disconnect the battery charger cord and swing the battery tray to locked closed position.
8. In the hydraulic/electric tray, 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 gauge. If required, add a quality grade hydraulic oil. Refer to "RECOMMENDED HYDRAULIC OILS" for recommendations.
9. Swing the hydraulic/electric tray to closed position.
- 10A. **On (CE) machines**
Raise the platform by selecting "BASE" position with the Base/Off/Platform Select Key Switch (Figure 2-5. on Page 15), then push the base Up/Down Toggle Switch to the "↑" (up) position until there is an adequate clearance to swing down and position the safety bar.
- 10B. **On ANSI/SIA and CSA machines**
Raise the platform with Up/Down Toggle Switch from hydraulic tray, until there is an adequate clearance to swing down and position the safety bar.
11. Lift the Safety Bar from the storage channel and swing down into position. (Refer to label on base for proper procedure.) Lower the platform until the scissor assembly is firmly supported by the safety bar.
12. Inspect all hoses, fittings, wires, cables, valves, etc. for leaks, hidden damage and foreign material.
- 13A. **On (CE) machines**
Raise the platform by selecting "BASE" position with the Base/Off/Platform Select Key Switch (Figure 2-5. on Page 15), then push the base Up/Down Toggle Switch to the "↑" (up) position until there is an adequate clearance to swing up the safety bar. Return the safety bar to the storage channel.
- 13B. **On ANSI/SIA and CSA machines**
Raise the platform with Up/Down Toggle Switch from the hydraulic tray, until there is an adequate clearance to swing up safety bar. Return safety bar to storage channel.

14. Raise the platform to the maximum extension height.

NOTE

Refer to Table 3-3. General Specifications on Page 39 for raise and lowering times.

15. Fully lower the platform.

NOTE

A lowering warning system is standard on **(CE)** Models 3015, 3219, 3220, 4620, 4626, 4830 and 4832. This system automatically stops the lowering function before reaching the fully retracted position and sounds an alarm. After the operator has checked that no person is near the scissors, the lowering function can be reactivated. These machines do not have scissor guards.

16. The SJIII Series Work Platform is now ready for use by an authorized, qualified operator who has read and completely understands ALL of Section 2, OPERATION in this manual.

PRESTART PROCEDURES

1. Carefully read and completely understand ALL of SECTION 2, OPERATION in this manual and ALL warnings and instruction labels on the work platform.
2. Ensure that there are no obstacles around the work platform and in the path of travel such as holes, drop offs, ditches, soft fill or other debris. Also ensure that there are no electrical cords or hoses higher than 1/2" (12 mm) in the path of travel.

3. Check overhead clearances.
4. Make sure the batteries are fully charged and have the proper electrolytic fluid level. Disconnect the AC cord from the external power source.
5. Make sure that the Free-Wheeling Valve is fully closed.
6. Make sure all guardrails and lockpins are in place and locked in position
7. Make sure both side battery and hydraulic trays are locked.
8. Make sure you do not climb or descend a grade steeper than 20% (SJIII Compacts), or 25% (SJIII Conventionals). Elevated driving must only be done on firm level surfaces.

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).

**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. Operator also **MUST** be familiar with employer's work rules and 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 controls on the base:***

1. Turn Emergency Power Disconnect Switch to "ON" position.
2. Use the ladder at the rear of the work platform to access the work platform deck.
3. Latch the entry chain/gate.

Using the controls on the platform:

4. Pull out the Emergency Stop Button.
5. Turn key switch to "ON" position (ANSI/SIA and CSA) or "PLATFORM" position (CE).

6. **TO RAISE THE PLATFORM:** Select “LIFT” position with the Lift/Off/Drive Toggle Switch. Lift the controller lock ring and push the controller handle forward until desired height is reached. Release handle to stop.
7. **TO LOWER THE PLATFORM:** Select “LIFT” position with the Lift/Off/Drive Toggle Switch. Lift the controller lock ring and pull the controller handle backward until desired height is reached. Release handle to stop. **Note: Platform lowering is not proportional.**

NOTE

A lowering warning system is standard on **(CE)** Models 3015, 3219, 3220, 4620, 4626, 4830 and 4832. This system automatically stops the lowering function before reaching the fully retracted position and sounds an alarm. After the operator has checked that no person is near the scissors, the lowering function can be reactivated. These machines do not have scissor guards.



If the machine does not drive when elevated, disengage the drive controller. Lower the platform immediately. Check that the pothole protection device is operating properly, and ensure that there are no electrical cords or hoses with a diameter of more than 1/2 “ (1.25cm) in the path of travel, or under the pot hole protection bar.

8. **TO DRIVE FORWARD:** Select “DRIVE” position with the Lift/Off/Drive Toggle Switch. Lift the controller lock ring and push the controller handle forward. Release handle to stop.
9. **TO DRIVE IN REVERSE:** Select “DRIVE” position with the Lift/Off/Drive Toggle Switch. Lift the controller lock ring and pull the controller handle backwards. Release handle to stop.

NOTE

Drive is disabled if pothole protection device has not been completely lowered due to debris on floor interfering with the device.

10. **TO STEER:** Press the rocker on top of the controller handle in the direction you wish to steer. **NOTE: Steering is not proportional.**

EMERGENCY LOWERING SYSTEM

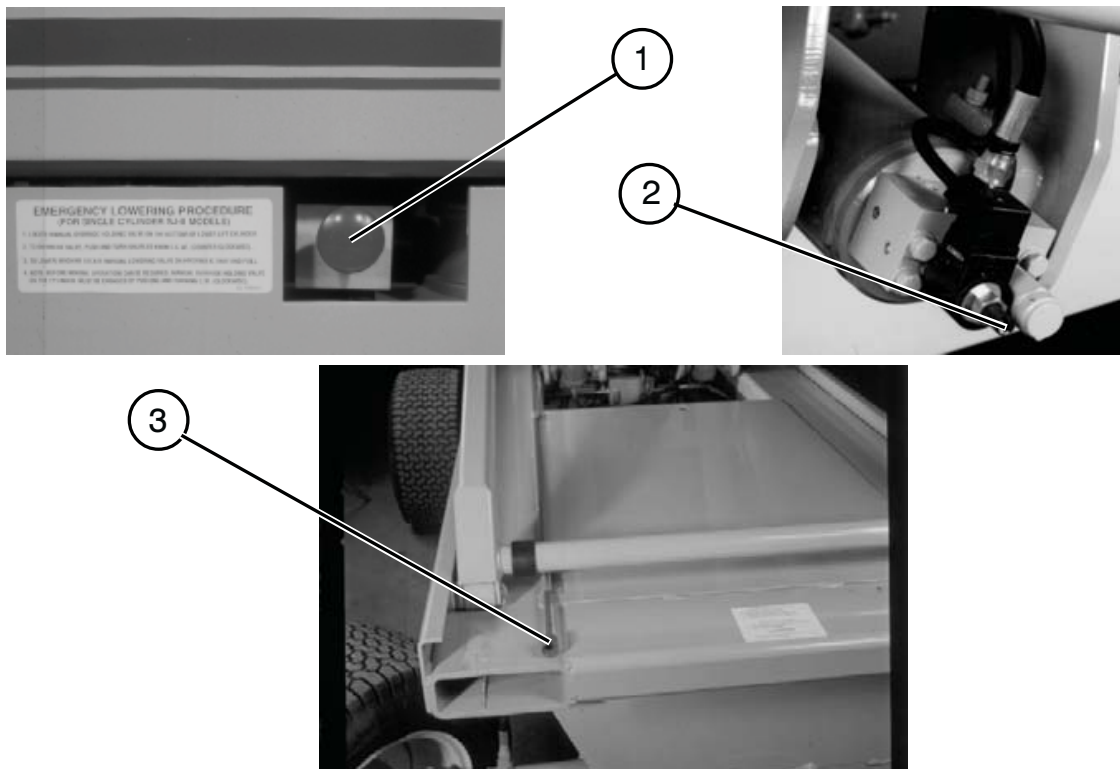


Figure 2-9. Emergency Lowering System
(Model 6832 shown)

1. Emergency Lowering Valve
2. Holding Valve Manual Override Knob
3. Holding Valve Manual Override Knob Access Rod
(Models 4626, 4830, 4832, 6826, and 6832 only)

1 & 2. EMERGENCY LOWERING VALVE and HOLDING VALVE MANUAL OVERRIDE KNOB

This system allows platform lowering in the event of an electrical system failure. Use the following procedure to lower the platform:

1. Depress and turn each red manual override knob (located at the base of each lift cylinder) counterclockwise. Override knobs on the upper cylinders of multiple cylinder machines can be reached with the access rod (**Item 3**) stored on top of the base.
2. Pull the Emergency Lowering Valve knob out to lower the platform.
3. Turn each red manual override knob clockwise to restore normal operation.

SHUTDOWN PROCEDURE

1. Fully lower the platform.
2. Turn Key Switch to “OFF” position. Remove key.
3. Push in Emergency Stop Button(s).
4. Rotate Emergency Battery Disconnect Switch to “OFF” position.

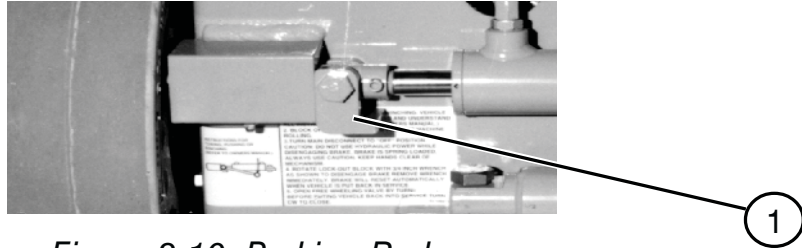
TOWING AND FREE-WHEELING PROCEDURES**Preparation For Towing****a) PARKING BRAKE**

Figure 2-10. Parking Brake

1. Parking Brake**1. Parking Brake**

The parking brakes are devices that are always mechanically engaged until hydraulically or manually released. A pin retracted by a single-acting hydraulic cylinder disengages each brake disc when driving. A spring inside each cylinder returns the pin to engage the brake disc for parking, lifting, lowering and stationary steering. The brake pins **MUST** be manually disengaged for towing, pushing or winching. This requires the special procedure as follows:



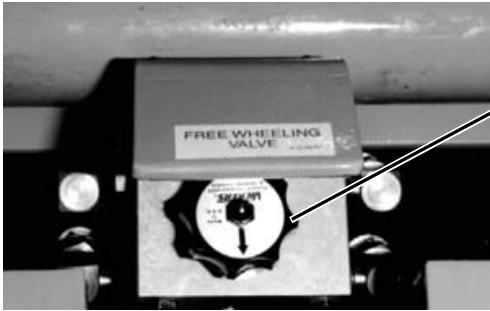
DO NOT manually disengage the parking brake if the work platform is on a slope.

Make sure that the work platform is on level ground. Chock or block the wheels to keep work platform from rolling.

- **FOR LEFT-HAND BRAKE:** Using a 3/4" (19mm) wrench, rotate the lockout block on the brake pin 90° clockwise. The brake pin should be clear of the brake disc.
- **FOR RIGHT-HAND BRAKE:** Using a 3/4" (19mm) wrench, rotate the lockout block on the brake pin 90° counterclockwise. The brake pin should be clear of the brake disc.

NOTE

The parking brakes will reset automatically when the work platform is driven.

b) FREE-WHEELING**FREE-WHEELING VALVE
(Models 3015 and 3219)****FREE-WHEELING VALVE
(Models 3220,4620,4626,
4830,6826 and 6832)***Located at the front of machine**Located at the rear of machine**Figure 2-11. Free-Wheeling Valve***1. Free-Wheeling Valve****1. Free-Wheeling Valve**

The free-wheeling valve is located at the front or rear of the machine. Turning the valve knob counterclockwise to a fully opened position allows fluid to flow through the wheel motors, thus providing “free-wheeling” so that the work platform can be pushed or towed after the brakes are released (Figure 2-10. on Page 27) without damaging the wheel motors. **When towing, DO NOT exceed 2 mph (3.2 km/h).** Valve **MUST** be closed tightly (clockwise) for normal operation.

c) PREPARATION AFTER TOWING

After moving machine, complete the following procedures:

- 1- Position machine on a firm, level surface.
- 2- Chock or block the wheels to keep work platform from rolling, or engage the parking brake by momentarily activating the drive function.
- 3- Close free-wheeling valve

BATTERY SERVICE**WARNING
EXPLOSION HAZARD**

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

**CAUTION**

Contact with electrolytic acid can cause skin irritation and damage clothing. Wear a protective apron, gloves and goggles when working with batteries.

FIRST AID

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

SERVICING THE BATTERIES

1. Turn Emergency Battery Disconnect Switch to “OFF” position.
2. Check battery fluid level in each battery. If fluid level does not reach the fill mark in each battery add distilled or demineralized water. If needed, check the specific gravity in each battery. It should be 1.260 to 1.275.
3. Check battery case for damage.
4. Clean battery terminals and cable ends thoroughly with a terminal cleaning tool or wire brush.
5. Make sure all battery connections are tight.
6. Replace any battery that is damaged or incapable of holding a lasting charge.

BATTERY CHARGING PROCEDURES (Standard Machines)

Chargers can ignite flammable materials and vapors. **DO NOT** use near fuels, grain dust, solvents or other flammables



To reduce the risk of electrical shock, connect charger only to a properly grounded single phase outlet. **DO NOT** use an extension cord longer than 25 feet, (7.6 metres.)

1. Connect charger AC plug to proper voltage source. Refer to charger nameplate for voltage requirements.
2. Charge batteries. **DO NOT** leave charger unattended for more than two consecutive days. Severe overcharging and battery damage will result if charger fails to turn off.
3. Disconnect charger from external power source.

BATTERY CHARGING PROCEDURES (EE-Rated Machines)

1. Move the work platform to an area designated for battery charging. (Refer to NFPA 505* for charging setup.) *NFPA 505 is a publication of: **National Fire Protection Association, Inc.** Batterymarch Park, Quincy, MA 02269 (USA)
2. Connect battery charger DC plug into the battery plug in the battery tray.
3. Charge batteries. (Refer to battery charger operation manual for procedures.) When charge cycle is completed, disconnect charger plug from battery plug.

BATTERY CHARGING PROCEDURES

BYCAN CHARGER

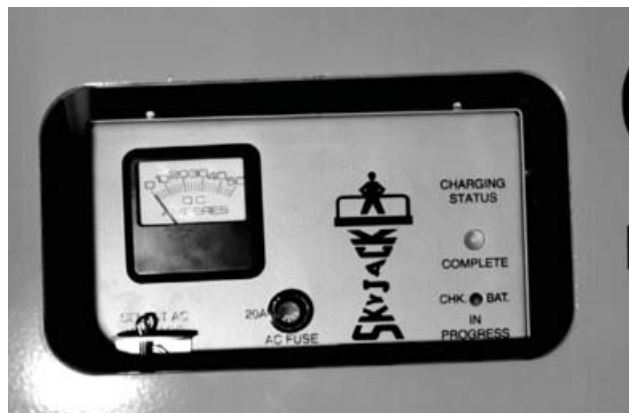


Figure 2-12. Bycan Battery Charger

BATTERY STATUS

- 1. GREEN L.E.D. COMPLETE
- 2. YELLOW L.E.D. CHECK BATTERY
- 3. RED L.E.D. IN PROGRESS

The charger will start immediately. (Transformer will hum and fan will come on). The red “IN PROGRESS” LED will come on. The ammeter will show charging current.

The current will be high for approximately 30 minutes then it will taper off. If the current does not taper off, disconnect the charger and check the batteries for a shorted cell.

The charging cycle is automatically controlled and normal charging time will be 6 to 10 hours.

When the batteries are fully charged, the charger will shut off and the green “COMPLETE” will come on. Shut-off voltage is 31 volts.

MOTOR APPLIANCE CHARGER



Figure 2-13. Motor Appliance Battery Charger

BATTERY STATUS

- 1. GREEN L.E.D CHARGE COMPLETE
- 2. YELLOW L.E.D. 80% CHARGE
- 3. RED L.E.D. INCOMPLETE

CHARGER STATUS

- 4. YELLOW L.E.D. CHARGER ON
- 5. RED L.E.D. ABNORMAL CYCLE

This charger is equipped with an electronic circuit that will completely recharge the batteries and automatically turn off after the charge cycle is complete.

The function of the L.E.D. indicators is as follows:

When the AC power is connected to the charger, the L.E.D.'s will flash several times then flash independently to check the light circuits. After the flashing sequence is complete the "INCOMPLETE" light will come on. Five seconds later, the "CHARGER ON" light will come on and at the same time, the ammeter will indicate how much current is going to the batteries.

As the charge cycle continues, which can last between 1-1/2 hours and 16 hours for a complete cycle, depending on the state of charge of the batteries, the "80%" light will come on and the "INCOMPLETE" light will go off. When voltage of the batteries reaches approximately 30 volts, the "80%" light will go off and the "CHARGE COMPLETE" light will come on. This light will remain on even after the charger is turned off by the electronic control. After the charger turns off, the "CHARGE COMPLETE" light will indicate to the operator that the batteries are healthy and are fully charged.

If the “80% CHARGE” light continues to stay on after the charge cycle is complete, this indicates to the operator that the batteries are not capable of attaining a full charge.

If the “INCOMPLETE” light remains on after the charge cycle is complete, this indicates to the operator that the batteries are not capable of attaining even an 80% charge.

If either the “80% CHARGE” or “INCOMPLETE” light remain on after the charge cycle is complete, the batteries should be inspected for problems.

If the “ABNORMAL CYCLE” light comes on during the charge cycle, the batteries should be inspected for problems.

Refer to “Battery Service” on Page 29 for proper battery inspection and maintenance procedures.

OPERATOR'S RESPONSIBILITY FOR MAINTENANCE

Death or injury can result if the work platform is not kept in good working order. Inspection and maintenance should be performed by competent personnel who are familiar with mechanical procedures.

The operator should be assured that the work platform has been properly maintained before using it. Included in this section is information on lubrication and inspection points that require maintenance.

Even if the operator is not responsible for the maintenance of this work platform, the operator should perform the daily inspections found in Table 3-1. Maintenance and Inspection Schedule.

NOTE

Replace all worn or damaged parts or labels discovered during this inspection.



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

MAINTENANCE AND INSPECTION SCHEDULE

The actual operating environment of the work platform governs the use of the maintenance schedule. The inspection points covered in Table 3-1. Maintenance and Inspection Schedule indicates the areas of the work platform to be checked and the intervals at which they should be checked.

GENERAL MAINTENANCE HINTS

- Before attempting any repair work, disconnect battery ground negative (-) lead.
- Properly position safety bar if the scissors assembly is raised.
- Preventive maintenance is the easiest and least expensive type of maintenance.

SECTION 3

MAINTENANCE

Table 3-1. Maintenance and Inspection Schedule

	Daily	Weekly	Monthly	3-Months	6-Months	Yearly
Mechanical						
Struct. damage/welds (1)	✓					
Parking brakes (2)	✓					✓
Tires and wheels (1)(2)(3)	✓					✓
Guides/rollers/slides (1)	✓					✓
Locking pins(1)(2)	✓					✓
Railings/entry chain/gate(2)(3)	✓					✓
Bolts and fasteners (3)	✓					✓
Rust (1)			✓			✓
Whl/ brgs (2) King pins (1)(8)	✓					✓
Pothole protection (1)(2)	✓					✓
Steer cylinder ends (8)				✓		✓
Electrical						
Battery fluid level (1)	✓					✓
Control switches (1)(2)	✓					✓
Cords and wiring (1)	✓					✓
Battery terminals (1)(3)	✓					✓
Terminal and plugs (3)	✓					✓
Generator and receptacle (2)	✓					✓
Limit switches (2)	✓					✓
Hydraulic						
Hydraulic oil level (1)	✓					✓
Hydraulic leaks (1)	✓					✓
Lift/lowering time (10)				✓		✓
Hydraulic cylinders (1)(2)		✓				✓
Emergency lowering (2)	✓					
Lift capacity (7)			✓			✓
Hydraulic oil/filter (9)					✓	✓
Miscellaneous						
Labels (1)(11) Manual (12)	✓					✓
Notes: (1) Visually inspect (2) Check operation (3) Check tightness (4) Check oil level (7) Check relief valve setting. Refer to Serial number nameplate.			(10) See Table 3-3. General Specifications (11) Replace if missing or illegible. (12) Proper Operating Manual MUST be in manual box			

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

Model	With 3' Extension Platform	
	Main Platform	Extension Platform
SJIII 3015	250 lbs. (113kg) 1 person	250 lbs. (113kg) 1 person
SJIII 3219	250 lbs. (113kg) 1 person	250 lbs. (113kg) 1 person
SJIII 3220	500 lbs. (226kg) 2 persons	300 lbs. (136kg) 1 person
SJIII 4620	800 lbs. (362kg) 2 persons	300 lbs. (136kg) 1 person
SJIII 4626	550 lbs. (249kg) 2 persons	300 lbs. (136kg) 1 person
SJIII 4830	400 lbs. (181kg) 2 persons	300 lbs. (136kg) 1 person
SJIII 4832	300 lbs. (136kg) 1 person	300 lbs. (136kg) 1 person
SJIII 6826	900 lbs. (408kg) 2 persons	300 lbs. (136kg) 1 person
SJIII 6832	700 lbs. (317kg) 2 persons	300 lbs. (136kg) 1 person

NOTE: Refer to serial number nameplate on work platform for additional information

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

Model	With 5' or 6' Extension Platform	
	Main Platform	Extension Platform
SJIII 3220	400 lbs. (181kg) 2 persons	300 lbs. (136kg) 1 person
SJIII 4620	700 lbs. (317kg) 2 persons	300 lbs. (136kg) 1 person
SJIII 4626	450 lbs. (204kg) 2 persons	300 lbs. (136kg) 1 person
SJIII 4830	NOT APPLICABLE	NOT APPLICABLE
SJIII 4832	NOT APPLICABLE	NOT APPLICABLE
SJIII 6826	700 lbs. (317kg) 2 persons	300 lbs. (136kg) 1 person
SJIII 6832	700 lbs. (317kg) 2 persons	300 lbs. (136kg) 1 person

NOTE: Refer to serial number nameplate on work platform for additional information

Table 3-3. General Specifications

ELECTRICAL SYSTEM	24 Volts DC
DC MOTOR	4 Hp - 3600 rpm
BATTERIES (4) (Standard) BATTERIES (4) (Optional)☆	6 Volt, 220AH 6 Volt, 250AH
TIRES (4/Model) (3015 & 3219) TIRES (4/Model) (32xx, 46xx, & 48xx) TIRES (4/Model) (6826 & 6832)**	12.00 x 4.00 8 Solid Rubber 16.00x 4.00 x 8 Solid Rubber 23.00 x 10.5 x 12 Foam Filled
TRAVEL SPEED - Low TRAVEL SPEED - High	.75 mph (1.20 km/h) 2.00 mph (3.20 km/h)
Max. Tire Contact Pressure (3015) Max. Tire Contact Pressure (3219) Max. Tire Contact Pressure (3220) Max. Tire Contact Pressure (4620) Max. Tire Contact Pressure (4626) Max. Tire Contact Pressure (4830) Max. Tire Contact Pressure (4832) Max. Tire Contact Pressure (6826) Max. Tire Contact Pressure (6832)	67 psi (4.7 kg/cm ²) *** 72 psi (5.0 kg/cm ²) *** 87 psi (6.1 kg/cm ²) *** 95 psi (6.7 kg/cm ²) *** 105 psi (7.4 kg/cm ²) *** 113 psi (7.9 kg/cm ²) *** 111 psi (7.8 kg/cm ²) *** 66 psi (4.6 kg/cm ²) *** 70 psi (4.9 kg/cm ²) ***
LIFT TIME (Model 3015) LIFT TIME (Model 3219) LIFT TIME (Model 3220) LIFT TIME (Model 4620) LIFT TIME (Model 4626) LIFT TIME (Model 4830) LIFT TIME (Model 4832) LIFT TIME (Model 6826) LIFT TIME (Model 6832)	21 seconds 30 seconds 35 seconds 35 seconds 44 seconds 45 seconds 45 seconds 45 seconds 47 seconds
LOWERING TIME (Model 3015) LOWERING TIME (Model 3219) LOWERING TIME (Model 3220) LOWERING TIME (Model 4620) LOWERING TIME (Model 4626) LOWERING TIME (Model 4830) LOWERING TIME (Model 4832) LOWERING TIME (Model 6826) LOWERING TIME (Model 6832)	29 seconds 40 seconds 35 seconds 35 seconds 40 seconds 47 seconds 47 seconds 40 seconds 55 seconds

Table 3-3. General Specifications (continued)

LIFT RELIEF (Model 3015) (R2)	1700 psi* (117 bar)
LIFT RELIEF (Model 3219) (R2)	2150 psi* (148 bar)
LIFT RELIEF (Model 3220) (R2)	1600 psi* (110 bar)
LIFT RELIEF (Model 4620) (R2)	1900 psi* (131 bar)
LIFT RELIEF (Model 4626) (R2)	2150 psi* (148 bar)
LIFT RELIEF (Model 4830) (R2)	2150 psi* (148 bar)
LIFT RELIEF (Model 4832) (R2)	2150 psi* (148 bar)
LIFT RELIEF (Model 6826) (R2)	2000 psi* (138 bar)
LIFT RELIEF (Model 6832) (R2)	1950 psi* (134 bar)
SYSTEM RELIEF (Model 3015) (R1)	2900 psi* (200 bar)
SYSTEM RELIEF (Model 3219) (R1)	2900 psi* (200 bar)
SYSTEM RELIEF (Model 3220) (R1)	2000 psi* (138 bar)
SYSTEM RELIEF (Model 4620) (R1)	2000 psi* (138 bar)
SYSTEM RELIEF (Model 4626) (R1)	2200 psi* (152 bar)
SYSTEM RELIEF (Model 4830) (R1)	2200 psi* (152 bar)
SYSTEM RELIEF (Model 4832) (R1)	2200 psi* (152 bar)
SYSTEM RELIEF (Model 6826) (R1)	2200 psi* (152 bar)
SYSTEM RELIEF (Model 6832) (R1)	2200 psi* (152 bar)
PUMP (Standard) (Models 3015 & 3219)	.194 ci/rev
(Models 3220, 4620, 4626, 4830 & 4832)	.226 ci/rev
(Models 6826 & 6832)	.291 ci/rev
PUMP (EE-Rated) (Models 3015 & 3219)	.097 ci/rev
(Models 3220, 4620, 4626, 4830 & 4832)	.161 ci/rev
(Models 6826 and 6832)	.226 ci/rev
RETURN FILTER	20 micron
HYDRAULIC SYSTEM CAPACITY (Models 3015 & 3219)	4.0 gallons (15 liters)
(Models 3220, 4620, 4626, 4830, 4832, 6826 & 6832)	8.0 gallons (30 liters)
HYDRAULIC TANK CAPACITY (Models 3015 & 3219)	3.0 gallons (11 liters)
(Models 3220, 4620, 4626, 4830, 4832, 6826 & 6832)	7.3 gallons (28 liters)

Table 3-3. General Specifications (continued)

WHEEL MOTORS (2) (Models 3015 & 3219) (Models 3220, 4620, 4626, 4830 & 4832) (Models 6826 & 6832)	4 ci/rev 18 ci/rev 32 ci/rev
NOISE LEVEL	less than 70 dba

☆ Not available for Models 3015 and 3219.

* Refer to serial number nameplate for specific pressure settings.

** Fill hardness is 55 durometer.

*** With rated capacities

RECOMMENDED HYDRAULIC OILS

DO NOT use synthetic or fire resistant oils in this work platform. Use ATF Dexron III (ESSO) or equivalent hydraulic oil. For conditions causing oil temperatures below -31°F (-35°C) and above 122°F (50°C) consult Skyjack, Inc.

NOTES

NOTES

 **WARNING**

ANSI/SIA (United States)

You are required by the current ANSI/SIA A92.6 standards to read and understand YOUR RESPONSIBILITIES in the Manual Of Responsibilities before you use or operate this work platform.

CSA (Canada) and CE (Europe)

You are required to conform to national health and safety regulations applicable to the operation of this elevating work platform.

FAILURE TO COMPLY with your REQUIRED RESPONSIBILITIES in the use and operation of the work platform could result in DEATH OR SERIOUS INJURY!

 **DANGER**

ELECTROCUTION HAZARD

FAILURE TO AVOID THIS HAZARD WILL RESULT IN DEATH OR SERIOUS INJURY!

THIS MACHINE IS NOT INSULATED. MAINTAIN SAFE CLEARANCES FROM ELECTRICAL POWER LINES AND APPARATUS. YOU MUST ALLOW FOR PLATFORM SWAY, ROCK OR SAG. THIS WORK PLATFORM DOES NOT PROVIDE PROTECTION FROM CONTACT WITH OR PROXIMITY TO AN ELECTRICALLY CHARGED CONDUCTOR.

VOLTAGE RANGE	MINIMUM SAFE APPROACH DISTANCE	
	(FEET)	(METERS)
(PHASE TO PHASE)		
0 TO 300V	AVOID CONTACT	
OVER 300V TO 50KV	10	3.05
OVER 50KV TO 200KV	15	4.6
OVER 200KV TO 350KV	20	6.1
OVER 350KV TO 500KV	25	7.62
OVER 500KV TO 750KV	35	10.67
OVER 750KV TO 1000KV	45	13.72

YOUR SKYJACK AUTHORIZED DEALER:



For Service in North America and Asia please call 800 275-9522
SKYJACK Inc. Service Center 3451 Swenson Ave., St. Charles, IL 60174 **FAX 630 262-0006**
For Parts in North America and Asia please call 800 965-4626
SKYJACK Inc. Parts Center 990 Vernon Rd., Wathena, KS 66090 **FAX 888 782-4825**
For Parts & Service in Canada please call 800 265-2738
SKYJACK Inc. 55 Campbell Rd., Guelph, Ontario, Canada N1H 1B9 **FAX 519 837-3883**
For Parts & Service in Europe please call 31 297 255 526
SKYJACK Europe Communicatieweg 29, 3641 SG Mijdrecht The Netherlands **FAX 31 297 256 948**

SKYJACK PART NUMBER: 117105AC