

SKYJACK™

Elevating the World
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SKYJACK™

OPERATING MANUAL

SJKB-33N Serial Number 90877 and Above.
SJKB-33i, 33C Serial Number 91117 and Above.
SJKB-40i, 40C Serial Number 92525 and Above.



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 Netherlands **FAX 31 297 256 948**

CALIFORNIA
Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects, and other reproductive harm.

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Table 2-8. General Specifications - SJKB-33i, 33C and SJKB-40i, 40C

ELECTRICAL SYSTEM	48 Volts DC
BATTERIES (8)	6 Volt, 305AH
TIRES	Refer to Table 2-3
INSIDE TURNING RADIUS	7' (2.13m)
OUTSIDE TURNING RADIUS	14'-6" (4.42m)
UNDERCLEARANCE	7.5" (.19m)
FLOOR LOADING (SJKB-33i, 33C)	26.87psi(1.88 kg/cm ²)
FLOOR LOADING (SJKB-40i, 40C)	32.86psi(2.31 kg/cm ²)
PIVOTAL HEIGHT	15'-0" (4.6m)
TAILSWING AT PIVOTAL HEIGHT	ZERO
TURRET ROTATION (non-continuous)	365 degrees
LIFE TIME (minimum)(entry height to maximum platform height)(SJKB-33i, 33C)	95 seconds
LOWERING TIME (minimum)(maximum platform height to entry height)(SJKB-33i, 33C)	80 seconds
LIFE TIME (minimum)(entry height to maximum platform height)(SJKB-40i, 40C)	124 seconds
LOWERING TIME (minimum)(maximum platform height to entry height)(SJKB-40i, 40C)	92 seconds
SYSTEM RELIEF PRESSURE (R1)	2600 psi
PUMP (boom function)	.194 ci./rev.
TRAVEL SPEED (maximum at stowed height)	3.0 mph (1.3kph)
TRAVEL SPEED (maximum at elevated height)	0.8mph (1.3kph)
RETURN FILTER	20 micron
HYD-RESERVOIR CAPACITY (33i, 33C, 40i, 40C)	8.8 gal.(33.3 liters)
HYD-SYSTEM CAPACITY (33i, 33C, 40i, 40C)	15.8 gal.(59.8 liters)
AMBIENT NOISE LEVEL	56 db26'-3" (8m)

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Table 2-6. Tire Specifications - SJKB-33i, 33C and SJKB-40i, 40C

Model	Tire		Fill Specification	
	Size	Rating	Type	Pressure
SJKB-33C, 40C	10 x 16.5	10 Ply	Air	55 PSI
SJKB-33i, 40i	11 L 16SL	12 Ply	Air	55 PSI
SJKB-33C, 40C (Lugged Flotation)	31 x 15.5 x 15	8 Ply	Air	55 PSI
SJKB-33i, 40i (Ribbed Flotation)	31 x 13.5 x 15	8 Ply	Air	55 PSI
SJKB-33C, 40C (Lugged Foam Filled)	10 x 16.5	10 Ply	Solid Urethane	*
SJKB-33i, 40i (Ribbed Foam Filled)	11 L 16SL	12 Ply	Solid Urethane	*
HIGH FLOTATION (Ribbed)	31 x 13.5 x 15	8 PLY	Solid Urethane	*
* 28 Durometer Fill installed at 55 psi.				

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Table 2-7. Standard Operating Times - SJKB-33N and SJKB-33i, 33C and SJKB-40i, 40C

FUNCTION TEST	SECONDS
Riser Up	32-36
Riser Down	24-26
Boom Up	16-18
Boom Down	24-26
Boom Extract (SJKB 33N, 33i, 33C)	19-23
Boom Retract (SJKB 33N, 33i, 33C)	14-16
Boom Extract (SJKB 40i, 40C)	30-34
Boom Retract (SJKB 40i, 40C)	20-22
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 WARNING
ANSI/SIA (United States) You are required by ANSI/SIA A92.5 -1992 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 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.

OPERATOR SAFETY REMINDERS 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 protective clothing when working on or near machinery. Use appropriate safety devices to protect your eyes, ears, 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.

 DANGER	VOLTAGE RANGE	MINIMUM SAFE APPROACH DISTANCE	
ELECTROCUTION HAZARD	(PHASE TO PHASE)	(FEET)	(METERS)
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.	(0 TO 300V)	AVOID CONTACT	
	(Over 300V to 50KV)	10	3.05
	(Over 50KV to 200KV)	15	4.60
	(Over 200KV to 350KV)	20	6.10
	(Over 350KV to 500KV)	25	7.62
	(Over 500KV to 750KV)	35	10.67
	(Over 750KV to 1000KV)	45	13.72
FAILURE TO AVOID THIS HAZARD WILL RESULT IN DEATH OR SERIOUS INJURY!			

Table 2-5. General Specifications - SJKB-33N

ELECTRICAL SYSTEM	48 Volts DC
BATTERIES (8)	6 Volt, 350AH
TIRES	Refer to Table 2-6.
INSIDE TURNING RADIUS	66" (1.68m)
OUTSIDE TURNING RADIUS	122" (3.09m)
UNDERCLEARANCE	4" (0.10m)
FLOOR LOAD RATING	64.7psi (4.55kg/cm²)
PIVOTAL HEIGHT	15' - 0" (4.6m)
TAILSWING AT PIVOTAL HEIGHT	ZERO
TURRET ROTATION (non-continuous)	355 degrees
LIFT TIME (minimum) (entry height to maximum platform height)	95 Seconds
LOWERING TIME (mimimum) (maximum platform height to entry height)	80 Seconds
SYSTEM RELIEF PRESSURE (R1)	2600 psi
PUMP (boom function) PUMP (brake)	.194 ci./rev .065 ci./rev
TRAVEL SPEED (maximum at stowed height)	3.4mph (5.5kph)
TRAVEL SPEED (maximum at elevated height)	0.8mph (1.3kph)
RETURN FILTER	10 micron
HYDRAULIC SYSTEM CAPACITY	9.2 gallons (34.8 liters)
HYDRAULIC TANK CAPACITY	5.5 gallons (20.8 liters)
AMBIENT NOISE LEVEL	56db

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Figure 2-15. Reach Diagram SJKB-40i, 40C

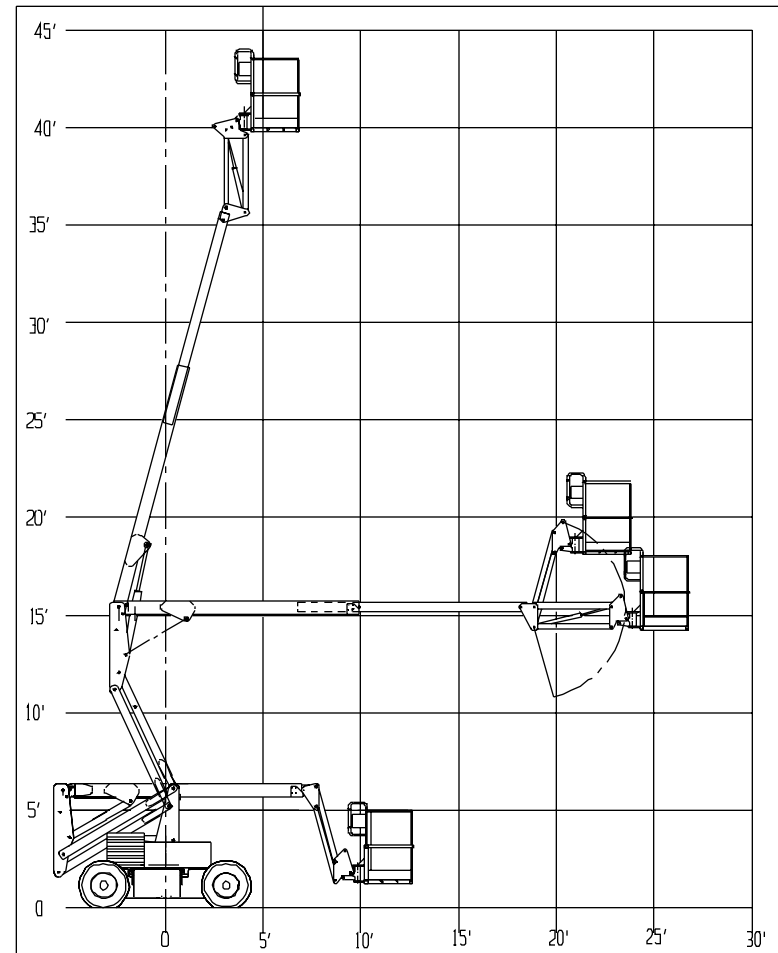
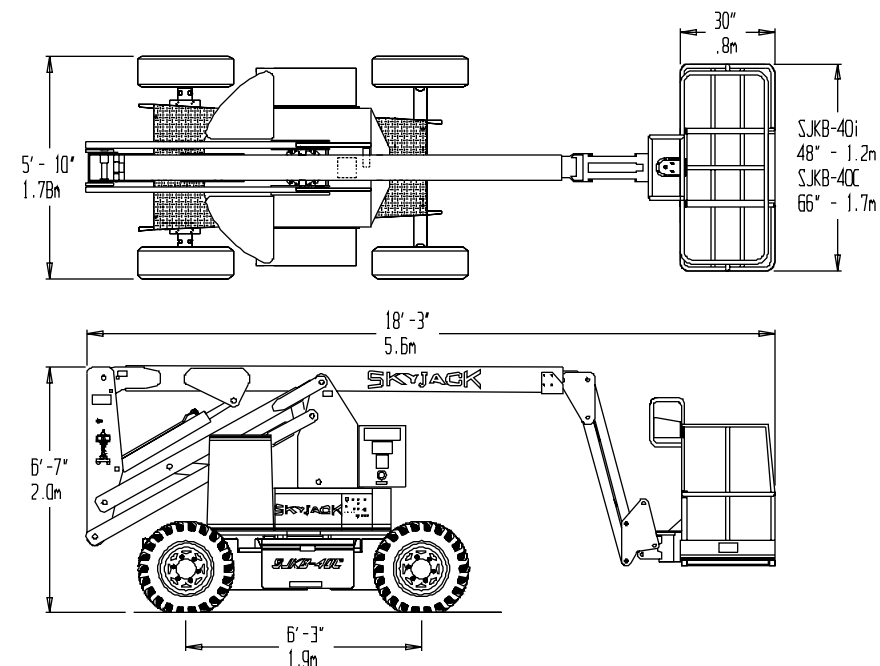


Figure 2-16. Dimensional Diagram SJKB-40i, 40C



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

SERVICE POLICY AND WARRANTY

SKYJACK, Inc. warrants each new work platform to be free of defective parts and workmanship during the first 12 months. Refer to Warranty Statement on Page iv for details.

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 SJKB-battery powered work platform. Equipment identified with "ANSI/CSA" meets the ANSI/SIA-A92.5 -1992 standards. Equipment identified with "CSA" meets the CAN3-B354.4 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.

WARRANTY STATEMENT

SKYJACK, Inc. warrants each new work platform to be free of defective parts and workmanship. During the first full year, labor and replacement parts will be provided by the local authorized Skyjack dealer without charge. For the following 48 months, structural components found to be defective will be replaced or repaired at no charge.

A warranty registration card is supplied with each work platform. The warranty is only effective when the warranty card has been completed and returned to Skyjack within 15 days from the time of billing. When work platforms are put into stock, the warranty period does not start until the work platform has been shipped to the dealers customer. If a unit is put into service and no warranty card has been mailed to Skyjack, Inc., the warranty period will commence 15 days from the date the dealer was invoiced for the work platform.

All warranty claims are subject to approval by Skyjack’s Service Department. Skyjack, Inc. reserves the right to limit or adjust claims with regard to defective parts, labor or travel time based on usual and customary guidelines. Parts purchased from sources other than Skyjack will not be covered under this warranty. Misuse or improper operation, lack of normal maintenance and inspections as outlined in this manual, alterations to original design and/or components or accidents will void all warranty. **Batteries are not covered by this warranty.**

The above mentioned warranty statement is exclusive and no other warranty whether written, oral or implied shall apply. Skyjack excludes any implied warranty of merchantability and fitness and accepted no liability for consequential damages or for other negligence.

WARRANTY PROCEDURES

The selling distributor or authorized dealer shall be responsible for the complete handling of customer claims under this warranty. Here’s what to do:

- 1. When a customer files a claim under this warranty, contact Skyjack’s Service Department to verify warranty coverage. NOTE: The complete serial number of the work platform is required to verify the claim.
- 2. When Skyjack’s Service Department verifies warranty coverage, they will also issue an RA (Return Authorization) number for the return of any defective component(s). All items over \$25.00 in value must be returned to Skyjack, Inc.

- 3. Fill out a Warranty Claim Form from dealer’s supply of claim forms. Then notify Skyjack’s Service Department of the warranty claim number on the form used.
- 4. The distributor/dealer should then file a warranty claim with Skyjack, Inc. describing the nature of the defect, probable cause, work performed, travel hours, and labor hours listed separately. Warranty labor will be paid at a rate of \$42.00 per hour. The travel allowance will be paid at the same hourly rate within the dealers specified territory, limited to a maximum of four (4) hours. If a part has serviceable components, PLEASE replace the bad component. For instance, if you have a bad switch on a controller, please replace the switch. Hydraulic cylinders should be repacked, unless they are damaged beyond repair. Engine failures should be directed to your local engine distributor and covered by the manufacturers warranty. Skyjack will accommodate you and your labor. Labor rates and travel allowances are subject to change without notice.
- 5. Warranty claims must be received by Skyjack within 15 working days from the date of the repair. Warranty claims received with insufficient information will be returned for correction or completion.
- 6. Materials returned for warranty inspection must have the following procedures:
 - A. Carefully packaged to prevent additional damage during shipping.
 - B. Drained of all contents and all open ports capped or plugged.
 - C. Shipped in a container tagged or marked with the RA number.
 - D. Shipped **PREPAID**. Any item(s) returned for warranty by any other means may be refused and returned unless prior approval from Skyjack is obtained.
 - E. Items shipped to the dealer will be sent freight prepaid and added to the invoice.

Failure to comply with the above procedures may delay approval and processing of the warranty claim and could result in the denial of a warranty claim. Skyjack’s dealer’s accounts must be kept current in order to approve and issue warranty credits. Skyjack reserves the right to withhold issuance of warranty credits to a dealer if their account is not in good standing. This is subject to change without prior notice.

Figure 2-13. Reach Diagram SJKB-33i, 33C

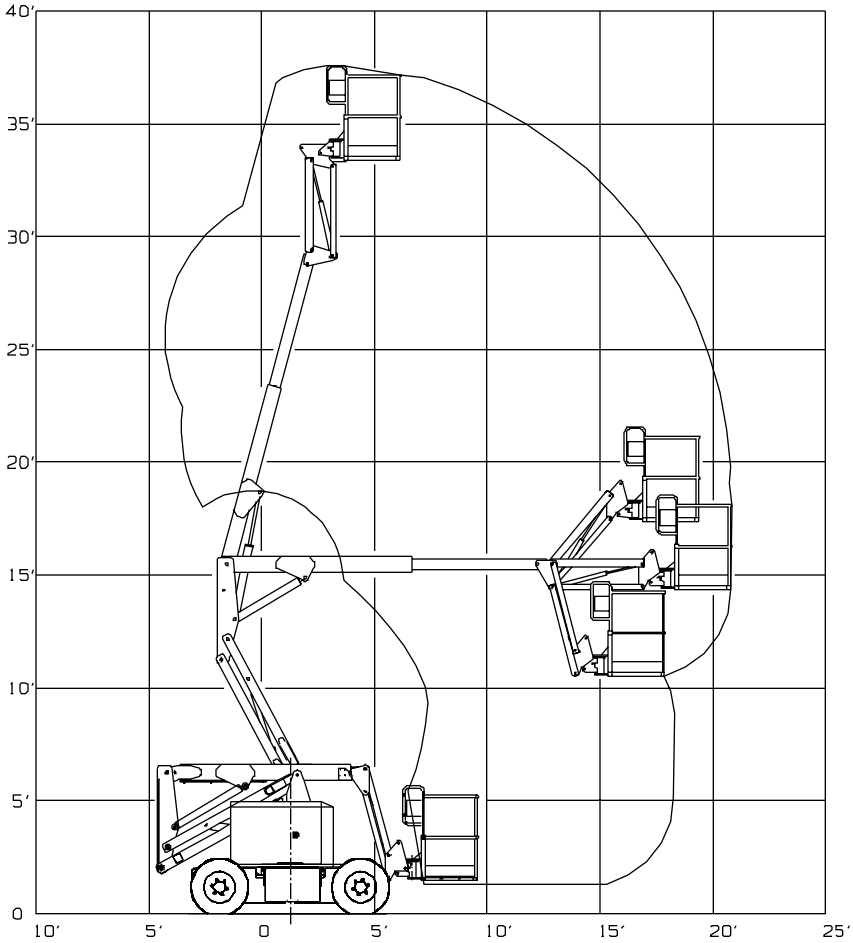
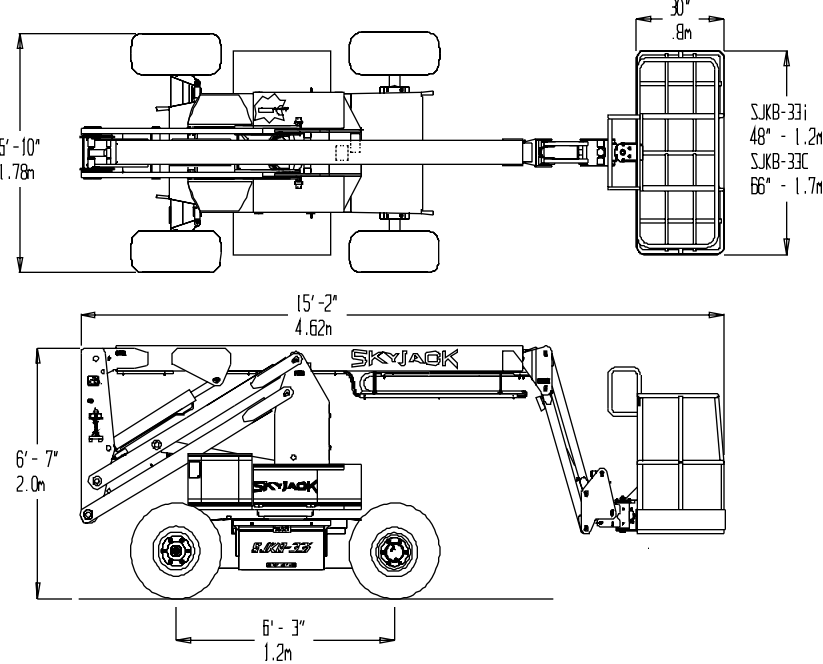


Figure 2-14. Dimensional Diagram SJKB-33i, 33C



SECTION 1
INTRODUCTION

Figure 2-11. Reach Diagram SJB-33N

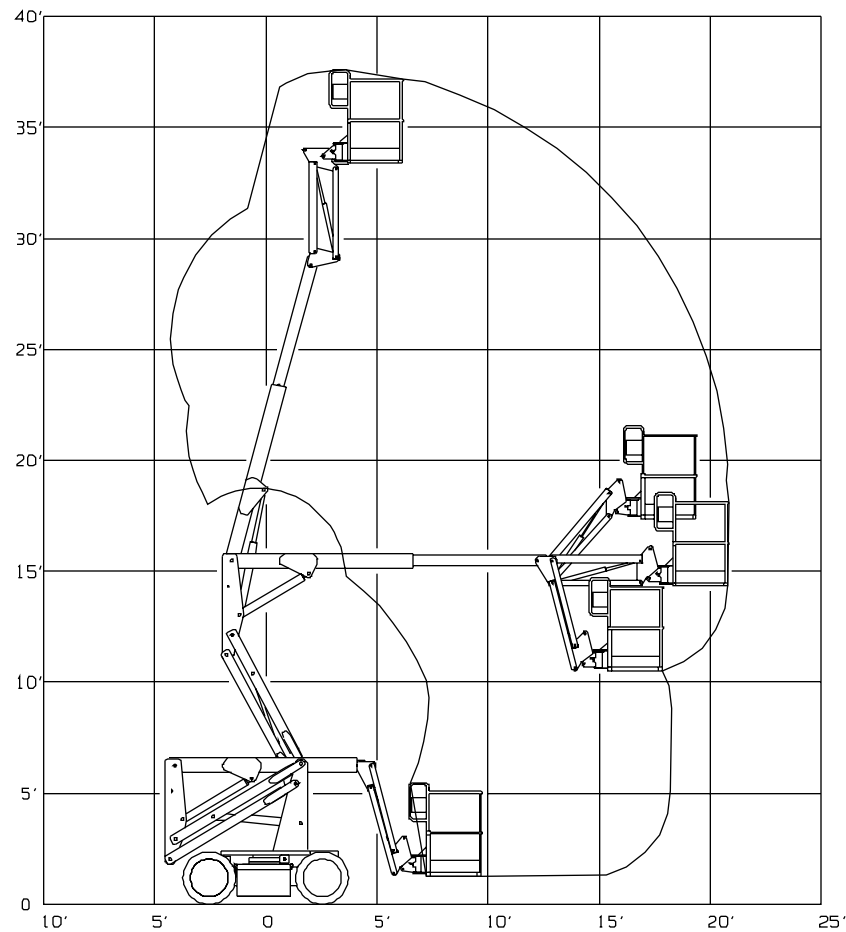
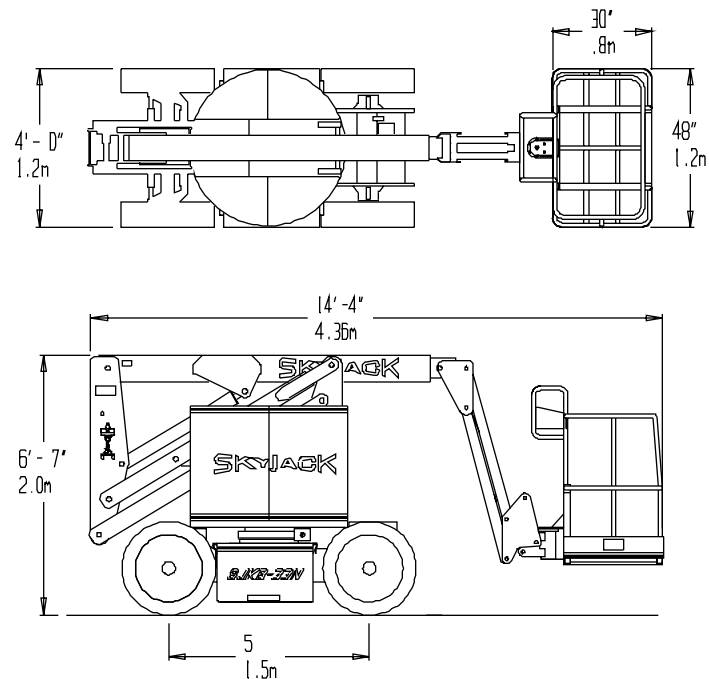


Figure 2-12. Dimensional Diagram SJBK-33N



PURPOSE OF EQUIPMENT

The SKYJACK SJBK Boom Work Platform are designed to transport and raise personnel and tools to overhead work areas.

USE OF EQUIPMENT

The work platform (Figure 1-2A/B.)are highly maneuverable work station. Models SJBK-33N, 33i and 40i are designed for slab-type industrial applications. Models SJBK-33C and 40C are designed for both slab-type and rough terrain construction applications. **Lifting and driving these models MUST be on a flat, level, compacted surface.**

WARNINGS

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

DESCRIPTION

The work platform consists of four major assemblies, the platform, boom assembly, turret and drive chassis. An operator's control console is located on the platform. A foot switch on the platform enables and disables the platform controls. Auxiliary and emergency controls are located in the hydraulic/electric cabinet on the rotating turret.

PLATFORM - The platform is constructed of a skid-resistant see-thru deck surface and a 42" high tubular steel railing system with midrails and 6" toe boards. The platform can be entered through a sliding midrail bar at the center of the railing system or optional hinged gate. The platform can be rotated 90 degrees from center in either direction. A 110 VAC GFI outlet is also located on the platform.

BOOM ASSEMBLY - The boom is mounted on the turret and consists of a 4 foot hydraulic boom jib, telescoping boom assembly and riser arm. This mechanism uses double-acting hydraulic cylinders with holding valves to control vertical movement. Manual lowering valves at the base of the riser, boom and jib cylinders allow the mechanism to lower in the event of an emergency or electrical system failure.

TURRET - **SJBK-33N**, the turret rotates 355 degrees noncontinuous. Within the turret are two cabinets. One cabinet contains the hydraulic tank and boom function pump/motor assembly. The other cabinet contains hydraulic and electric components and the base control panel. **SJBK-33i, 33C, 40i, 40C**, The turret rotates 365 degrees noncontinuous. Within the turret are two cabinets. One cabinet contains the main hydraulic manifold. The other cabinet contains the boom function pump/motor assembly, the brake manifold with emergency release valve, and the base control panel. The 48 volt, 25 amp battery charger is located at the rear of the turret. A hinged panel above the battery charger houses the electronic control units. The hydraulic oil tank is located at the front of the turret.

DRIVE CHASSIS - This weldment supports two battery compartments each holding four six volt, deep-cycle batteries. An electric motor coupled with a drive locking differential is used for driving the work platform. Dynamic braking as well as spring-applied hydraulically-released parking brakes are located on the drive axle. The front axle has two non-driven wheels steerable by double-acting steer cylinders. **SJBK-33N**, the 48 volt, 25 amp battery charger is located at the front of the chassis.

PLATFORM CONTROL CONSOLE - Located on the platform, this removable control station contains controls for work platform motion and emergency stopping.

OPTIONAL ACCESSORIES - The SKYJACK SJBK Boom Work Platform is designed to accept a variety of optional accessories. These are listed in Table 1-1. Specifications and Features found later in this section. Operating instructions for these options (if required) can be found in Section 2 of this manual.

General Work Conditions

Read and pay attention to all labels on the unit.

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 unit. Make sure the load is evenly distributed on the platform.

Jobsite Hazards

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

BE AWARE of overhead obstacles, especially electrical lines. Also be aware of poorly lit areas that might hide overhead obstacles.

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

DO NOT climb or descend a grade steeper than 30% while in travel mode. Boom elevated driving must be done only on firm surfaces. (Ref. Table 1-1)

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

Work Platform Conditions

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.

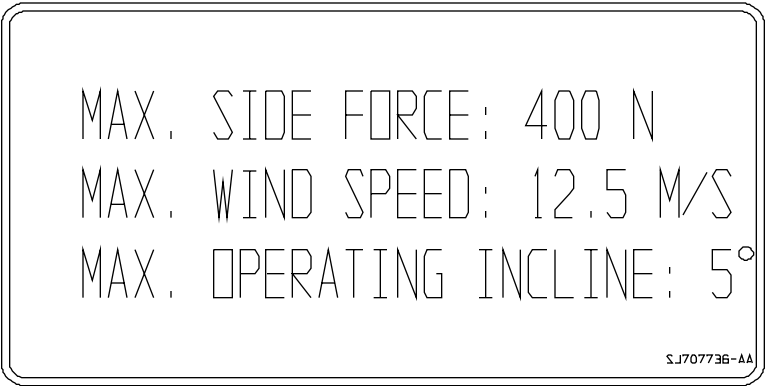


Figure 1-1. Front Panel Labels

BRAKE OPERATION TEST PROCEDURE

Proper operation of the parking brakes should be checked daily or at the beginning of each shift. Locate the machine in an appropriate area for testing the brakes. **IMPORTANT NOTE:** The area for testing the machine **MUST** be completely level and free of obstructions. **DO NOT** drive on an incline unless the parking brakes are working properly. With the machine fully stowed and the throttle switch in the high position (if engine powered). Drive the machine forward at full speed and remove foot from foot switch. Repeat this step driving in reverse.



Parking brakes will instantly engage causing the machine to stop immediately.

The machine should come to an instant and abrupt stop. If the machine does not stop instantly or if the machine pulls to one side while stopping, the brake adjustment **MUST** be checked before putting the machine into service.

Table 2-2. Owner’s Annual Inspection Record

MODEL NUMBER _____ SERIAL NUMBER _____								
RECORDING DATE								
RECORDING YEAR #	1	2	3	4	5	6	7	8
OWNERS NAME								
INSPECTED BY								

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Table 2-3. Tire Specifications - SJKB-33N

Model	Tire		Fill Specification
	Size	Rating	
<i>SJKB-33N</i>	27.5 x 7.5 x 15	14 Ply	Solid Urethane†
<i>NON-MARKING(Option)</i>	27.5 x 7.5 x 15		Solid
† - Solid urethane used for filling MUST be 75 durometer.			

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Table 2-4. Maximum Platform Capacities

Model	Platform Capacity (unrestricted)
<i>ALL MODELS</i>	500# (227kg) 2 occupants
NOTE: Refer to capacity label on work platform for additional information.	

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RECOMMENDED HYDRAULIC OILS

DO NOT use synthetic or fire resistant oil 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.

Table 2-1. 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 and slides (1)(2)	✓					✓
Railings and gates (2)(3)		✓				✓
Bolts and fasteners (3)	✓					✓
Rust (1)			✓			✓
Wheel bearings (2) and king pins (1)(6)					✓	✓
Turret gear (1)(2)(3)(6)		✓				✓
Turret gear box (1)(2)(3)		✓				✓
Pivot pins (1)	✓					✓
Steer cylinder ends (6)				✓		✓
Axle gear oil (12)						✓
ELECTRICAL						
Battery fluid level (1)	✓					✓
Control switches (1)(2)(3)	✓					✓
Cords and wiring (1)	✓					✓
Battery trays (11)			✓			✓
Battery terminals (1)(3)(11)	✓					✓
Terminals and plugs (1)(3)(11)	✓					✓
Generator and recepticals (2)	✓					✓
Limit switches (2)	✓					✓
Tilt sensor (2)	✓					✓
Directional sensing (2)	✓					✓
HYDRAULIC						
Hydraulic fluid level (1)	✓					✓
Hydraulic leaks/hoses (1)(3)	✓					✓
Lift/lowering time (8)				✓		✓
Hydraulic cylinders (1)(2)(3)		✓				✓
Emergency lowering (2)	✓					✓
Lift capacity (5)			✓			✓
Hydraulic oil filter (7)					✓	✓
MISCELLANEOUS						
Labels (1)(9) Manuals (10)	✓					✓
NOTES: (1) Visually inspect (2) Check operation (3) Check tightness (4) Check oil level (5) Check relief valve setting. Refer to Serial Number Nameplate. (6) Lubricate (7) Replace			(8) See Table 2-5. General Specifications. (9) Replace if missing or illegible. MT33N202 (10) Proper Operation Manual MUST be in manual enclosure. (11) Clean (12) Change oil. *Record inspection date.			

TABLE 1-1. SPECIFICATIONS AND FEATURES

Specifications

WEIGHT (SJKB-33N)	14,500# (6577kg)
WEIGHT (SJKB-33i, -33C)	9,700# (3946kg)
WEIGHT (SJKB-40i, -40C)	12,800# (5806kg)
WORK HEIGHT (SJKB-33N)	39' (11.89m)
WORK HEIGHT (nominal)(SJKB-33i, -33C)	39' (11.89m)
WORK HEIGHT (nominal)(SJKB-40i, -40C)	46' (14.02m)
RAISED PLATFORM HEIGHT(nominal)(SJKB-33N)	33' (10.06m)
RAISED PLATFORM HEIGHT (nominal)(SJKB-33i, -33C)	33' (10.06m)
RAISED PLATFORM HEIGHT (nominal)(SJKB-40i, -40C)	40' (12.19m)
STOWED HEIGHT	6' 7" (2.0m)
OVERALL WIDTH (SJKB-33N)	48" (1.22m)
OVERALL WIDTH (SJKB-33i, -40i)	5' 9" (1.75m)
OVERALL WIDTH (SJKB-33C, -40C)	5' 10" (1.78m)
STOWED LENGTH (SJKB-33N)	14' 4" (4.36m)
STOWED LENGTH (SJKB-33i, -33C)	15' 2" (4.62m)
STOWED LENGTH (SJKB-40i, -40C)	18' 3" (5.56m)
PLATFORM CAPACITY (Unrestricted)	500# (227kg)
PLATFORM SIZE (SJKB-33N,-33i,-40i)	30.00" x 48.00" (.76m x 1.22m)
PLATFORM SIZE (SJKB-33C, -40C)	30.00 x 66.00" (.76m x 1.68m)
ELECTRICAL SYSTEM	48 Volts DC
GRADABILITY	30%
TURRET ROTATION (SJKB-33N)	355° (Non-continuous)
TURRET ROTATION (SJKB-33i,-33C,-40i,-40C)	365° (Non-continuous)
TIRE SIZE (SJKB-33N)	27.5" x 7.5" x 15" Solid Urethane
TIRE SIZE (SJKB-33i, -40i) (Ribbed)	11 L 16SL Air Filled
TIRE SIZE (SJKB-33C, -40C) (Lugged)	30" x 10" x 16.5 Air Filled

Features

STANDARD EQUIPMENT

4 Foot Hydraulically Controlled Boom Jib
Variable Speed Drive and Function Controls
In-Line Elevating Assembly
Continuous Drive and Steer Directional Sensing
Electrical Dynamic Braking System
Two Spring-Applied Hydraulically-Released Parking Brakes
ANSI and CSA Standards Compliance

OPTIONAL EQUIPMENT

Operator Horn
All Function Motion Alarm
Descent Alarm
Travel Alarm
Flashing Amber Light
Spring-Loaded Half Gate
Spring Loaded Full Gate
On-Board 110VAC Generator
Lifting Lugs
Non Marking Tires
Additional Battery Boxes
Overload Sensing (France)
30" x 66" Platform (SJKB-33i, 40i Only)
High speed drive (SJKB-33i, 40i Only)
High Flotation Tires (SJKB-33C, 40C Only)

WORK PLATFORM MAJOR COMPONENT IDENTIFICATION

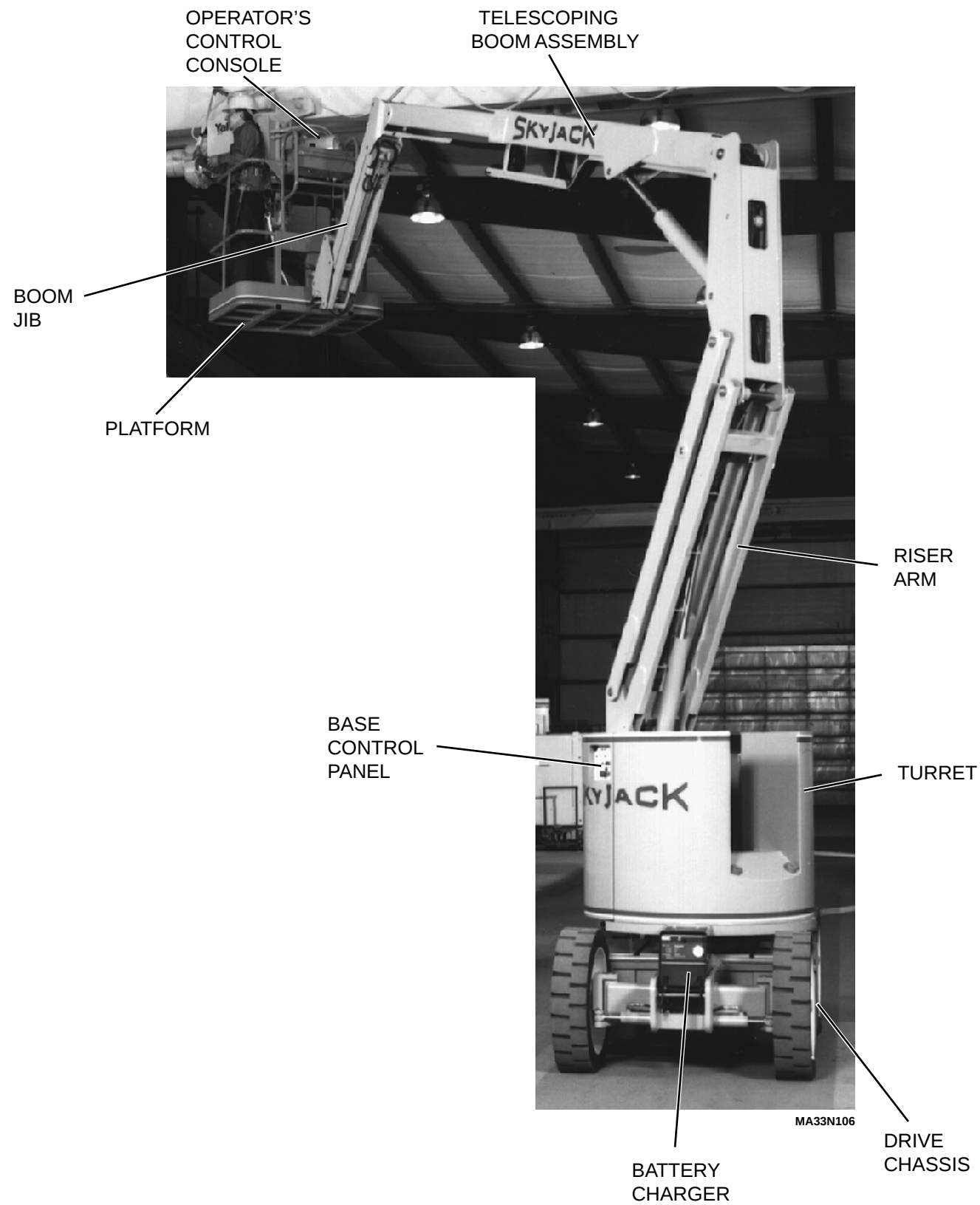


Figure 1-2A. SKYJACK SJKB-33N Boom Work Platform
(Model SJKB-33N shown)

BATTERY CHARGER OPERATION

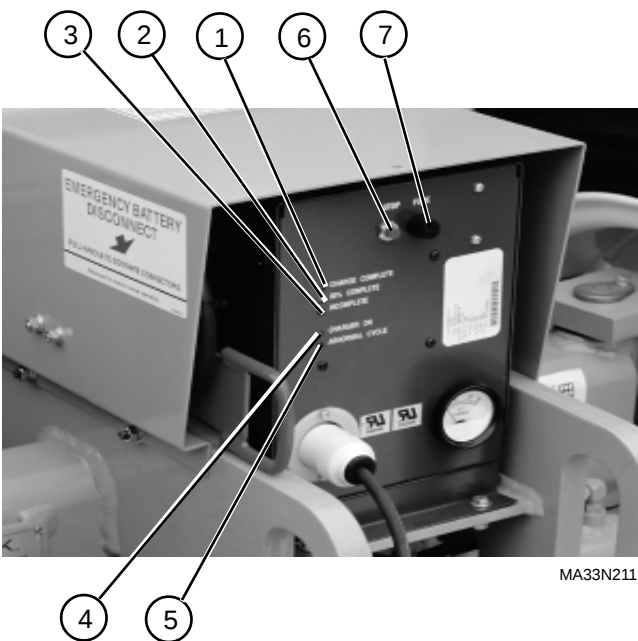


Figure 2-10. Automatic Battery Charger

BATTERY STATUS

- 1. GREEN LED CHARGE COMPLETE
- 2. YELLOW LED 80% CHARGE
- 3. RED LED INCOMPLETE

CHARGER STATUS

- 4. YELLOW LED CHARGER ON
- 5. RED LED ABNORMAL CYCLE
- 6. CHARGER STOP SWITCH
- 7. FUSE HOLDER

OPERATION OF THE COMPLETELY AUTOMATIC BATTERY CHARGER

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 LED indicators is as follows: When the AC power is connected to the charger, the LED'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% CHARGE" light will come on and the "INCOMPLETE" light will go off. When voltage of the batteries reaches approximately 60 volts, the "80% CHARGE" 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. Your standard good watering procedures should be used at all times.

BATTERY SERVICE AND CHARGING PROCEDURES

Battery Service



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



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.

- 1. Disconnect the batteries by separating the 350 Amp battery connectors.



DO NOT service the batteries without **first** separating the 350 Amp battery connectors. Vapors emitted by batteries can be ignited by a spark or arc.

- 2. Check battery fluid level in each battery. If plates are not covered, add distilled or demineralized water.
- 3. Check each 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.
- 7. Reconnect the 350 Amp battery connectors.

Battery Charging Procedures



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 a extension cord longer than 25 feet.

- 1. Select “⊗” (off) or “⏏” (platform) position with the Off/Platform/Base Key Select Switch.

NOTE

The battery charger **WILL NOT** operate if the Off/Platform/Base Key Select Switch is in the “⏏” (base) position.

NOTE

When the battery charger is operating all machine functions are disabled.

- 2. Connect charger AC plug to proper voltage source. Refer to charger nameplate for voltage requirements.
- 3. 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.
- 4. Disconnect charger from external power source.

WORK PLATFORM MAJOR COMPONENT IDENTIFICATION

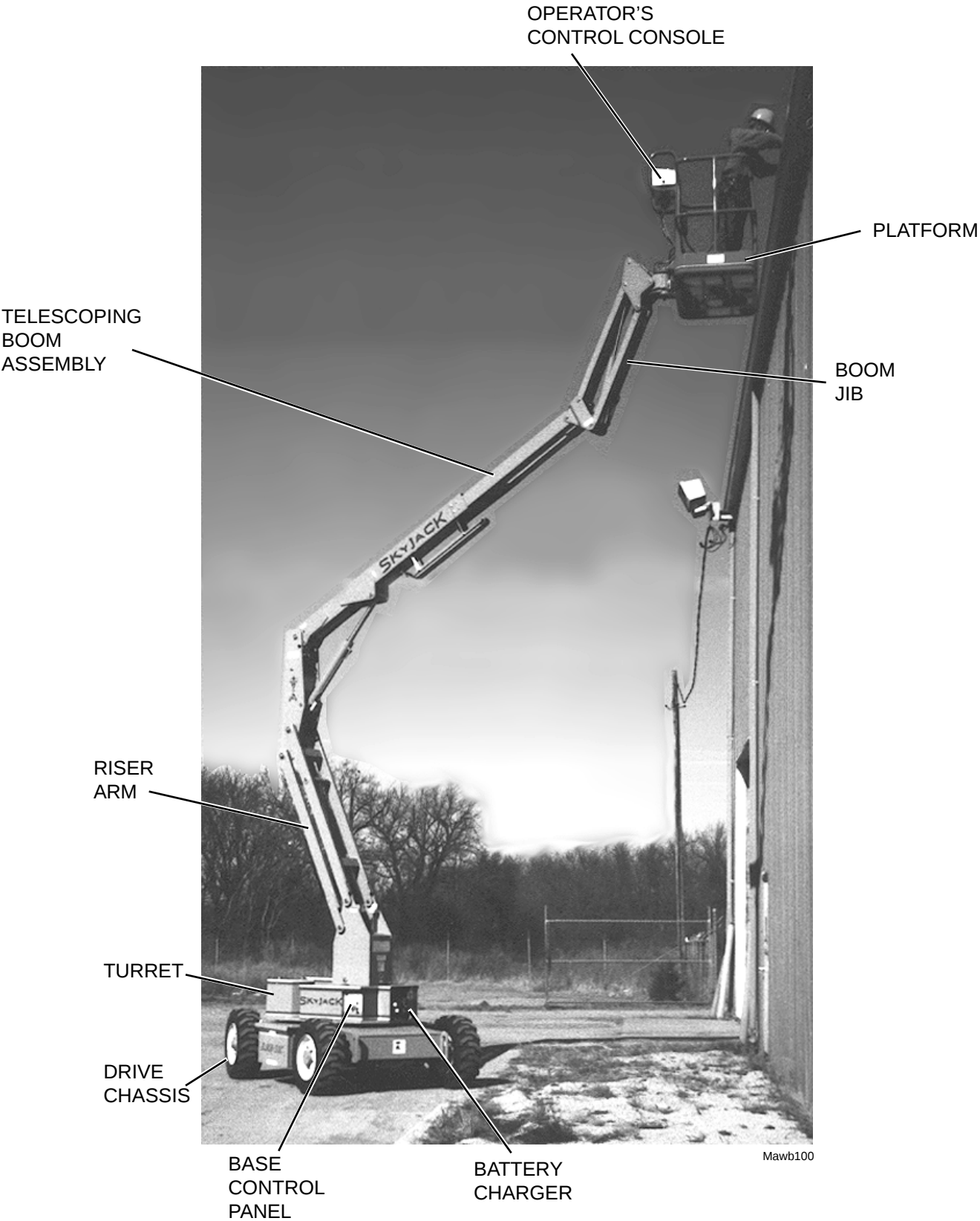


Figure 1-2B. SKYJACK SJKB Boom Work Platform (Model SJKB-33C Shown)

NOTES

21. **TO LEVEL THE PLATFORM (Platform is tilted toward the jib):** Press and hold the Platform Leveling Toggle Switch to the “ ⬇ ” (down) position. To stop release the switch.
22. **TO ROTATE THE PLATFORM TO THE LEFT:** Press and hold the Turret Rotate Toggle Switch to the “ ⬅ ” (left) position. Release the switch to stop.
23. **TO ROTATE THE PLATFORM TO THE RIGHT:** Press and hold the Turret Rotate Toggle Switch to the “ ➡ ” (right) position. Release the switch to stop.
24. **TO RETRACT THE BOOM ARM:** Press and hold the Boom Extend/Retract Toggle Switch to the “ ⬆ ” (retract) position. Release the switch to stop.
25. **TO EXTEND THE BOOMARM:** Press and hold the Boom Extend/Retract Toggle Switch to the “ ⬇ ” (extend) position. Release the switch to stop.
26. **TO SOUND THE HORN:** Depress the red push-button on the Drive/Steer Controller.

Shutdown Procedure

1. Fully lower the platform.
2. Push in the Emergency Stop Buttons.
3. Rotate the Off/Platform/Base Key Switch to the “ ⓧ ” (off) position. Remove the key.
4. Separate the 350 amp battery connectors.

Loading and Tie Down Procedure

1. With the telescopic boom fully retracted and trailer on firm level ground. Align the tires of the boom with the back end of the trailer.
2. Slightly raise the jib for ground clearance while loading. Slowly and carefully drive the machine on to the trailer.

NOTE

For loading and unloading using a winch line, see the brake release procedures in this section.

REMEMBER

Operating any hydraulic function will reset the parking brake.

3. With machine loaded on trailer, tie down as recommended. (Refer to Figure 2-9.)



MA33N210

Figure 2-9. Recommended Tie Down Locations

Pre-start Checks

- 1. Check for obstacles around the work platform and in the path of travel such as holes, drop off's, debris, ditches and soft fill.
- 2. Check overhead clearances.
- 3. Make sure that the batteries are fully charged. Disconnect battery charger from external power source.
- 4. Make sure emergency lowering valves at the base of the riser, boom and jib cylinders are fully closed.

Start and Operation

- 1. Make sure that the 350 Amp Battery Connectors are not separated.
- 2. Pull out the Emergency Stop Button on the Base Control Panel.
- 3. Select “” (platform) with Off/Platform/Base Select Key Switch.
- 4. Enter the platform by sliding the entry bar at the center of the platform upward. Make sure the entry midrail returns to midrail position. Close the gate (if so equipped).



DO NOT operate any control on the operator's control console without your safety belt fastened and properly securing the safety belt lanyard to the platform lanyard rings. **Failure to avoid this hazard could result in death or serious injury!**

- 5. Attach the safety belt lanyards of each occupant to the platform lanyard rings.
- 6. Pull out the Emergency Stop Button.
- 7. Depress and hold the Foot Switch.

REMEMBER: The controls on the Operator’s Control Console **WILL NOT** operate unless the Foot Switch is depressed and held.

NOTE: When the operator is positioned over an axle, the direction the operator is facing will be **FORWARD!**

- 8. **TO DRIVE FORWARD:** Slowly move the Drive/Steer Controller handle to the “” (forward) position. Release controller handle to stop.

- 9. **TO DRIVE IN REVERSE:** Slowly move the Drive/Steer Controller handle to the “” (reverse) position. Release controller handle to stop.
- 10. **TO STEER:** Depress the rocker on the Drive/Steer Controller handle in the direction you wish to steer.
- 11. **TO ADJUST BOOM FUNCTION SPEED:** Turn the Boom Speed Control Knob counter-clockwise to decrease function speed or clockwise to increase function speed. The Boom Speed Control will affect all lifting, lowering and rotate functions but will not affect drive or steer speed.
- 12. **TO MOVE THE JIB UPWARD:** Press and hold the Jib Up/Down Toggle Switch to the “” (up) position. Release the switch to stop.
- 13. **TO MOVE THE JIB DOWNWARD:** Press and hold the Jib Up/Down Toggle Switch to the “” (down) position. Release the switch to stop.
- 14. **TO MOVE THE RISER UPWARD:** Press and hold the Riser Up/Down Toggle Switch to the “” (up) position. Release the switch to stop.
- 15. **TO MOVE THE RISER DOWNWARD:** Press and hold the Riser Up/Down Toggle Switch to the “” (down) position. Release the switch to stop.
- 16. **TO MOVE THE BOOM UPWARD:** Press and hold the Boom Up/Down Toggle Switch to the “” (up) position. Release the switch to stop.
- 17. **TO MOVE THE BOOM DOWNWARD:** Press and hold the Boom Up/Down Toggle Switch to the “” (down) position. Release the switch to stop.
- 18. **TO ROTATE THE TURRET LEFT:** Press and hold the Turret Rotate Toggle Switch to the “” (left) position. Release the switch to stop.
- 19. **TO ROTATE THE TURRET RIGHT:** Press and hold the Turret Rotate Toggle Switch to the “” (right) position. Release the switch to stop.
- 20. **TO LEVEL THE PLATFORM (Platform is tilted away from the jib):** Press and hold the Platform Leveling Toggle Switch to the “” (up) position. To stop release the switch.

SECTION 2
OPERATOR CONTROLS/INSPECTIONS

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.

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 and inspected before using it. Even if the operator is not directly responsible for the maintenance of this work platform, the operator should perform **ALL** the daily inspections found in Table 2-1. Maintenance and Inspection Schedule.

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

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 2-1. Maintenance and Inspection Schedule indicates the areas of the work platform to be maintained or inspected and at what intervals the maintenance and inspections are to be performed.

OWNER’S ANNUAL INSPECTION RECORD

It is the responsibility of the owner to arrange daily, weekly, monthly and annual inspections of the work platform. Table 2-2. Owner’s Annual Inspection Record is to be used for recording the date of inspection, owners' name and the person responsible for the inspection of this work platform.

GENERAL MAINTENANCE HINTS

- Before attempting any repair work, disconnect the batteries by separating the 350A connectors.
- Preventive maintenance is the easiest and least expensive type of maintenance.

OPERATING CONTROL 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 beginning on SECTION 2, Page 7 in this manual. Both standard and optional controls are identified in this section. Therefore, some controls may be included that are not furnished on your platform.

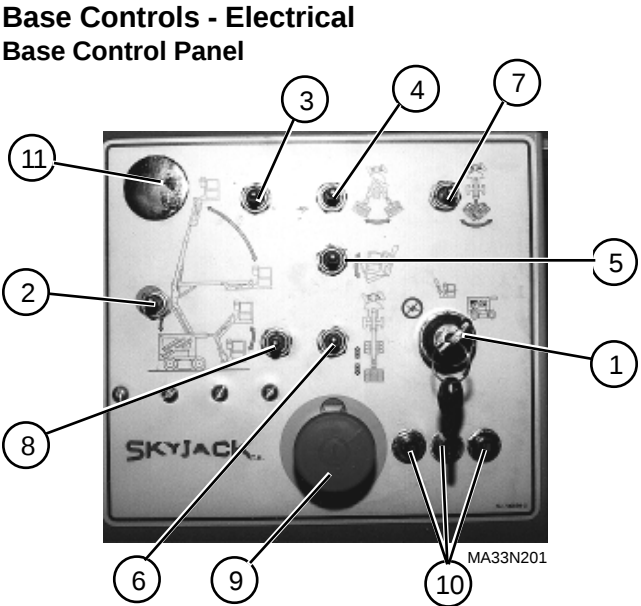


Figure 2-1. Base Control Panel and Label

- 1. OFF/PLATFORM/BASE SELECT KEY SWITCH
- 2. RISER UP/DOWN TOGGLE SWITCH
- 3. BOOM UP/DOWN TOGGLE SWITCH
- 4. TURRET ROTATION TOGGLE SWITCH
- 5. PLATFORM LEVELING TOGGLE SWITCH
- 6. BOOM RETRACT/EXTEND TOGGLE SWITCH
- 7. PLATFORM ROTATION TOGGLE SWITCH
- 8. JIB UP/DOWN TOGGLE SWITCH
- 9. EMERGENCY STOP BUTTON
- 10. CIRCUIT BREAKERS
- 11. BEEPER ALARM (option)

BASE CONTROL PANEL - This control station is located on the rotating turret in the hydraulic/electric cabinet cover. It contains the following controls:

- 1. OFF/PLATFORM/BASE SELECT KEY SWITCH** - Turning the key to the “⊗” (off) position disconnects power from the control circuit. When the “📍” (platform) position is selected, power is directed to the control station on the platform. When the switch is held in the “🏠” (base) position power is directed to the control station on the base.
- 2. RISER UP/DOWN TOGGLE SWITCH** - This switch controls the up/down movement of the riser section. To raise the riser section, push and hold this toggle switch to the “⬆” (up) position. Release switch to stop. To lower the riser section, push and hold this toggle switch to the “⬇” (down) position. Release switch to stop.
- 3. BOOM UP/DOWN TOGGLE SWITCH** - This switch controls the up/down movement of the boom section. To raise the boom section, push and hold this toggle switch to the “⬆” (up) position. Release switch to stop. To lower the boom section, push and hold this toggle switch to the “⬇” (down) position. Release switch to stop.

- 4. TURRET ROTATION TOGGLE SWITCH** - This switch controls clockwise and counterclockwise turret rotation. To rotate the turret clockwise, push and hold this toggle switch to the “↶” (cw) position. Release switch to stop. To rotate the turret counterclockwise, push and hold this toggle switch to the “↷” (ccw) position. Release switch to stop.
- 5. PLATFORM LEVELING TOGGLE SWITCH** - This switch controls the leveling of the platform if adjustment is necessary. If the platform is tilted away from the jib, push and hold this toggle switch to the “⬆” (up) position. Release switch when level. If the platform is tilted toward the jib, push and hold this toggle switch to the “⬇” (down) position. Release switch when level.
- 6. BOOM RETRACT/EXTEND TOGGLE SWITCH** - This switch controls the retraction and extension of the telescoping boom arm. To retract the boom arm, push and hold this toggle switch to the “⬆” (retract) position. Release switch to stop. To extend the boom arm, push and hold this toggle switch to the “⬇” (extend) position. Release switch to stop.
- 7. PLATFORM LEFT/RIGHT ROTATION TOGGLE SWITCH** - This switch controls left and right rotation of the platform. To rotate the platform to the left, push and hold this toggle switch to the “↶” (left) position. Release switch to stop. To rotate the platform to the right, push and hold this toggle switch to the “↷” (right) position.
- 8. JIB UP/DOWN TOGGLE SWITCH** - This switch controls the up/down movement of the jib. To move the jib upward, push and hold this toggle switch to the “⬆” (up) position. Release switch to stop. To move the jib downward, push and hold this toggle switch to the “⬇” (down) position. Release switch to stop.
- 9. EMERGENCY STOP BUTTON** - When struck, this red push-button switch disconnects power to the control circuit. In the event of an emergency or at work platform shut down, push button in. To restore power, simply pull button out.
- 10. CIRCUIT BREAKERS** - In the event of a power overload or positive circuit grounding, the circuit breaker will pop out. Make the necessary corrections, then depress the push-button to reset.
- 11. BEEPER ALARM** - This optional audible pulse device can be setup as a motion alarm, or as an all function alarm.

- 2. BOOM UP/DOWN TOGGLE SWITCH** - This switch controls the up/down movement of the boom section. To raise the boom section, push and hold this toggle switch to the “⬆” (up) position. Release switch to stop. To lower the boom section, push and hold this toggle switch to the “⬇” (down) position. Release switch to stop.
- 3. RISER UP/DOWN TOGGLE SWITCH** - This switch controls the up/down movement of the riser section. To raise the riser section, push and hold this toggle switch to the “⬆” (up) position. Release switch to stop. To lower the riser section, push and hold this toggle switch to the “⬇” (down) position. Release switch to stop.
- 4. JIB UP/DOWN TOGGLE SWITCH** - This switch controls the up/down movement of the jib. To move the jib upward, push and hold this toggle switch to the “⬆” (up) position. Release switch to stop. To move the jib downward, push and hold this toggle switch to the “⬇” (down) position. Release switch to stop.
- 5. TURRET ROTATION TOGGLE SWITCH** - This switch controls clockwise and counterclockwise turret rotation. To rotate the turret clockwise, push and hold this toggle switch to the “↶” (left) position. Release switch to stop. To rotate the turret counterclockwise, push and hold this toggle switch to the “↷” (right) position. Release switch to stop.
- 6. BOOM RETRACT/EXTEND TOGGLE SWITCH** - This switch controls the retraction and extension of the telescoping boom arm. To retract the boom arm, push and hold this toggle switch to the “⬆” (retract) position. Release switch to stop. To extend the boom arm, push and hold this toggle switch to the “⬇” (extend) position. Release switch to stop.
- 7. PLATFORM LEVELING TOGGLE SWITCH** - This switch controls the leveling of the platform if adjustment is necessary. If the platform is tilted away from the jib, push and hold this toggle switch to the “⬆” (up) position. Release switch when level. If the platform is tilted toward the jib, push and hold this toggle switch to the “⬇” (down) position. Release switch when level.
- 8. PLATFORM LEFT/RIGHT ROTATION TOGGLE SWITCH** - This switch controls left and right rotation of the platform. To rotate the platform to the left, push and hold this toggle switch to the “↶” (left) position. Release switch to stop. To rotate the platform to the right, push and hold this toggle switch to the “↷” (right) position. Release switch to stop.

- 9. BOOM SPEED CONTROL ROTARY SWITCH** - This rotary switch allows the operator to control the speed of the lifting, lowering and rotation functions. To reduce the speed of the functions turn the knob counterclockwise. To increase the speed of the functions turn the knob clockwise.
- 10. DRIVE/STEER CONTROLLER** - This lever-type controller allows the operator to drive in forward or reverse and by using the rocker switch on top of the controller to steer left or right.
- 11. HORN PUSH BUTTON (Option)** - If equipped with the horn option, the horn is sounded by depressing the red button on the Drive/Steer controller handle.
- 12. TILT SENSOR INDICATOR LIGHT** - This red indicator light warns the operator that the work platform is on a slope which exceeds the limits for safe operation. A warning buzzer will also sound.
- 13. FUNCTION ENABLE LIGHT** - This red indicator light tells the operator that the foot switch has been depressed and power is available to operate the controls on the operator’s control console.

OPERATING PROCEDURES

Before operating any control, read and completely understand ALL Dangers, Warnings and Cautions on the work platform and in this operator’s manual.

OPERATORS CHECK LIST
INSPECT AND/OR TEST THE FOLLOWING DAILY OR AT THE BEGINNING OF EACH SHIFT
1. OPERATING AND EMERGENCY CONTROLS. 2. SAFETY DEVICES. 3. PERSONAL PROTECTIVE DEVICES. 4. TIRES AND WHEELS. 5. OUTRIGGERS (IF EQUIPPED) AND OTHER STRUCTURES. 6. AIR, HYDRAULIC AND FUEL SYSTEM FOR LEAKS. 7. LOOSE OR MISSING PARTS OR HARDWARE. 8. CABLES OR WIRING HARNESS. 9. PLACARDS, WARNINGS, CONTROL MARKINGS AND OPERATING MANUAL(S). 10. GUARDRAIL SYSTEM. 11. ENGINE OIL SYSTEM (IF SO EQUIPPED). 12. BATTERY FLUID LEVEL. 13. HYDRAULIC AND BRAKE FLUID RESERVOIR LEVEL. 14. COOLANT LEVEL (IF SO EQUIPPED).

Ma40-211

Platform Controls - Electrical
Foot Switch

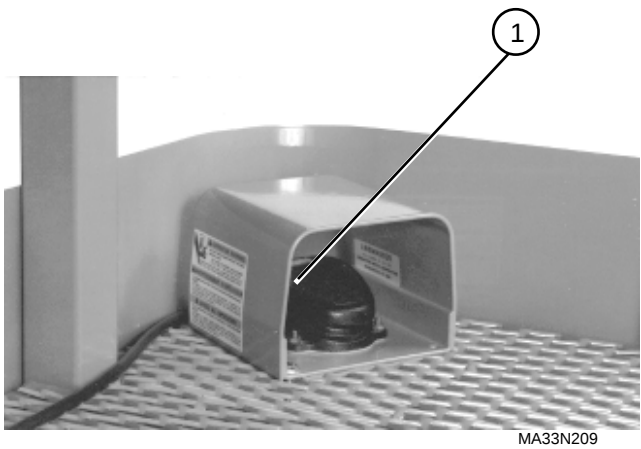


Figure 2-7. Foot Switch

1. FOOT SWITCH

1. FOOT SWITCH - The foot switch is located on the platform. When the foot switch is depressed and held, power is brought to the controls on the operator's control console. When the foot switch is released, the controls on the operator's control console are cutout.

IMPORTANT NOTE

The foot switch **MUST** be depressed and held to use any control on the operator's control console.



Before releasing the foot switch, the controllers should be returned to the neutral position. **Work platform motion will stop when the foot switch is released. When driving and foot switch is released, parking brake engages instantly.**

Operator's Control Console

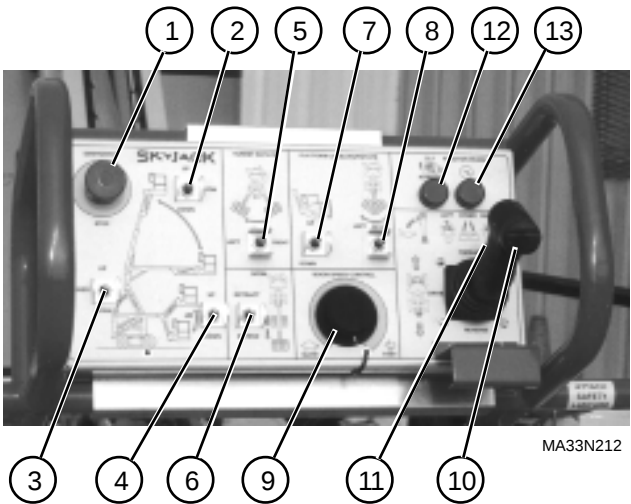


Figure 2-8. Operator's Control Console and Label

1. EMERGENCY STOP BUTTON
2. BOOM UP/DOWN TOGGLE SWITCH
3. RISER UP/DOWN TOGGLE SWITCH
4. JIB UP/DOWN TOGGLE SWITCH
5. TURRET ROTATE TOGGLE SWITCH
6. BOOM EXTEND/RETRACT TOGGLE SWITCH
7. PLATFORM LEVELING TOGGLE SWITCH
8. PLATFORM ROTATE TOGGLE SWITCH
9. BOOM SPEED CONTROL ROTARY SWITCH
10. DRIVE/STEER CONTROLLER
11. HORN PUSH-BUTTON
12. TILT SENSOR INDICATOR LIGHT
13. FUNCTION ENABLE LIGHT

OPERATOR'S CONTROL CONSOLE - This metal control station is located at the front of the platform. It contains the following controls:

IMPORTANT NOTE

The foot switch **MUST** be depressed and held to use any control on the operator's control console. Refer to Operating Procedures for detailed instructions on operating these controls.

1. EMERGENCY STOP BUTTON - This red mushroom-shaped button is designed to cut power to the platform controls when struck in the event of an emergency or at work platform shutdown. To restore power, simply pull button out.



Depressing the Emergency Stop Button instantly engages the parking brakes.

350 Amp Battery Connectors



Figure 2-2A. 350 Amp Battery Connectors (SJKB-33N)

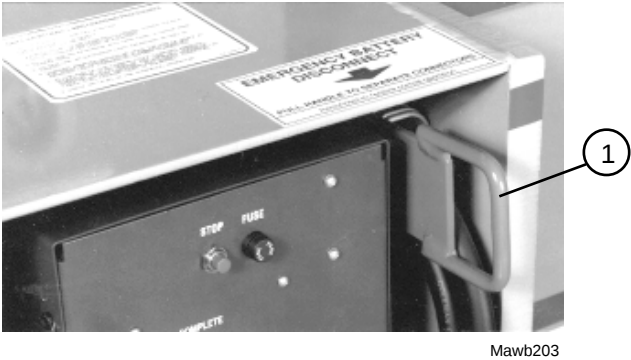


Figure 2-2B. 350 Amp Battery Connectors (SJKB-33i, 33C, 40i, 40C)

1. 350 AMP BATTERY CONNECTORS

1. 350 AMP BATTERY CONNECTOR - These connectors, located adjacent to the battery charger, disconnects the batteries and all power to both control stations in the event of an emergency and for work platform shut down. This connection **MUST** be made to operate any control on either control station. The battery charger works independently of this connection and the batteries may still be charged while these connectors are separated.

Base Controls - Mechanical
Emergency Turret Rotating Mechanism

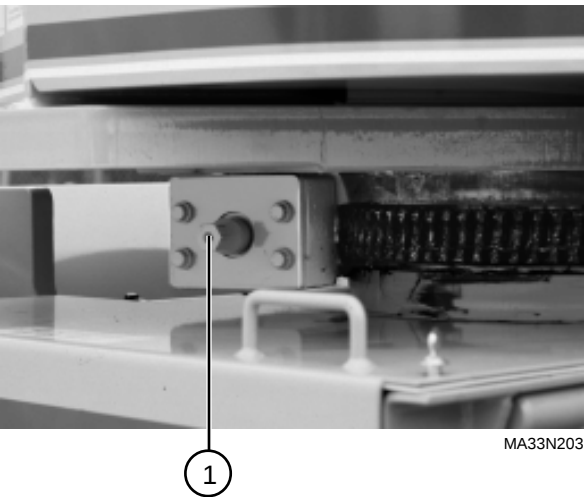


Figure 2-3A. Emergency Turret Rotating Mechanism (SJKB-33N)

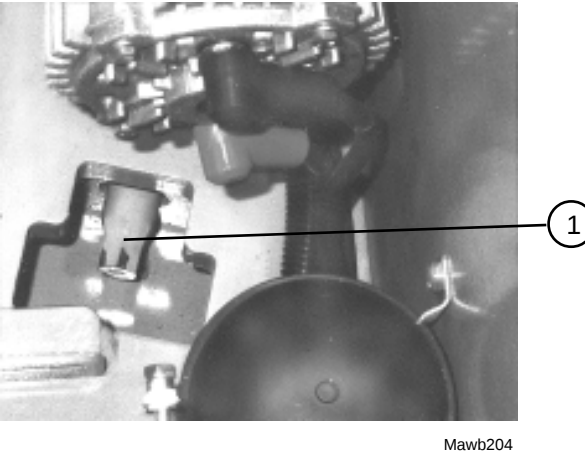


Figure 2-3B. Emergency Turret Rotating Mechanism (SJKB-33i, 33C, 40i, 40C)

1. EMERGENCY TURRET ROTATING MECHANISM

1. EMERGENCY TURRET ROTATING MECHANISM - This mechanism is located on the rotation gear under the turret. Using a 7/8" 6-point socket with ratchet to rotate the turret back to center. **NOTE:** On European models a 7/8" 6-point ratcheting wrench (SKYJACK #701517) is located inside the hydraulic/electric cabinet.

Base Controls - Hydraulic
Turret Rotation Speed Control Valve

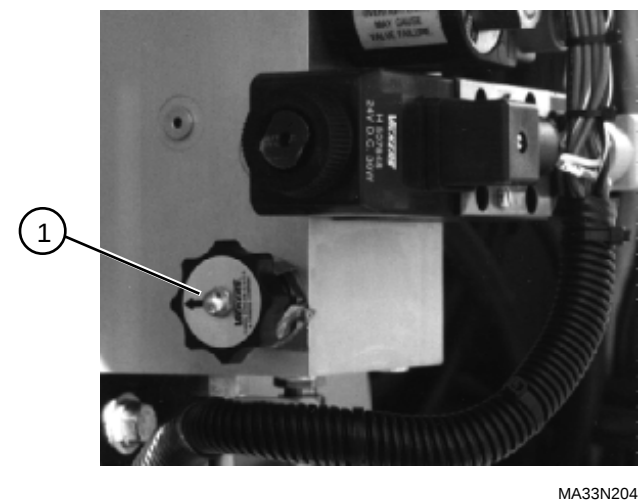


Figure 2-4A. Turret Rotation Speed Control Valve (SJKB-33N)

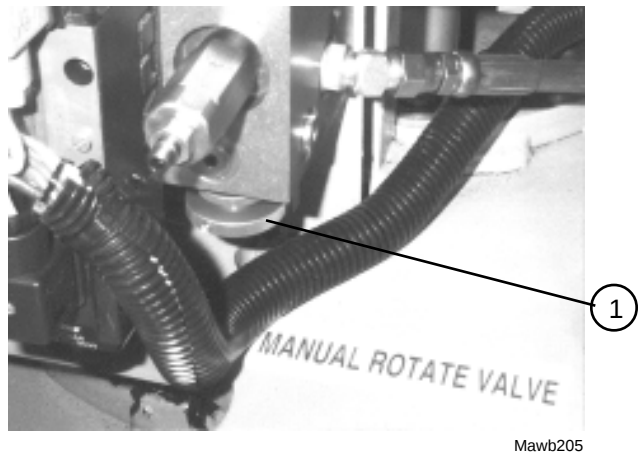


Figure 2-4B. Turret Rotation Speed Control Valve (SJKB-33i, 33C, 40i, 40C)

1. TURRET ROTATION SPEED CONTROL VALVE

1. TURRET ROTATION SPEED CONTROL VALVE - Located on the lower left side of the main manifold in the hydraulic/electric cabinet, this rotary valve when rotated to a fully closed position (clockwise) allows maximum turret rotation speed. By opening the valve (counterclockwise) the turret rotation speed can be reduced.

Emergency Lowering Valves

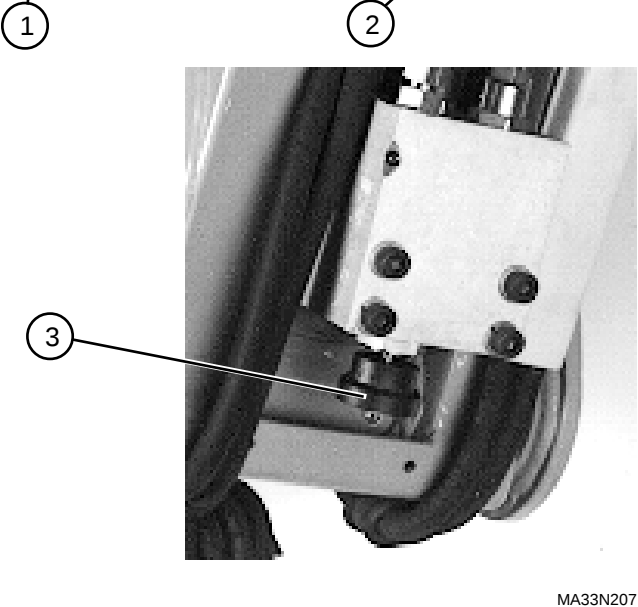
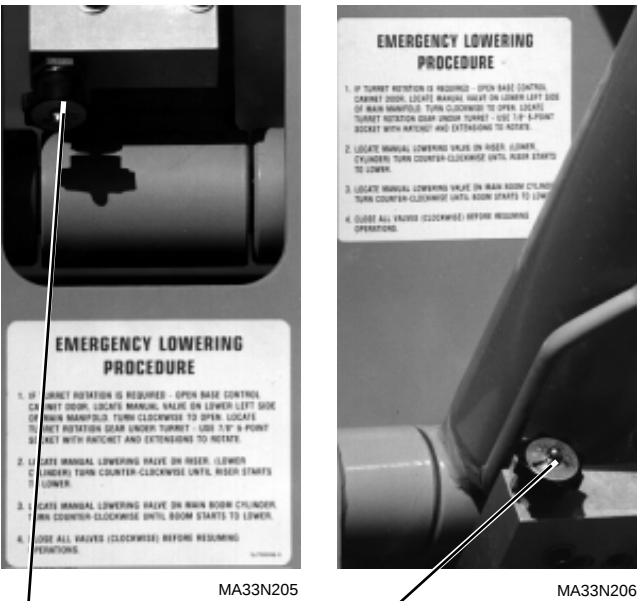


Figure 2-5. Emergency Lowering Valves and Procedure Label

- 1. EMERGENCY LOWERING VALVE ON RISER
- 2. EMERGENCY LOWERING VALVE ON BOOM
- 3. EMERGENCY LOWERING VALVE ON JIB

1. EMERGENCY LOWERING VALVE ON RISER - Located at the base on the riser cylinder, this valve allows riser lowering in the event of an emergency or an electrical system failure. Turning the valve knob counterclockwise allows the riser to gradually lower. Valve MUST be fully closed (clockwise) to restore normal operation.

2. EMERGENCY LOWERING VALVE ON BOOM - Located at the base on the boom cylinder, this valve allows boom lowering in the event of an emergency or an electrical system failure. Turning the valve knob counterclockwise allows the boom to gradually lower. Valve MUST be fully closed (clockwise) to restore normal operation.

3. EMERGENCY LOWERING VALVE ON JIB - Located at the base on the jib cylinder, this valve allows jib lowering in the event of an emergency or an electrical system failure. Turning the valve knob counterclockwise allows the jib to gradually lower. Valve MUST be fully closed (clockwise) to restore normal operation.

NOTE:
On European models, the manual lowering valve knobs are located inside the hydraulic/electric cabinet on the turret.

Parking Brake Release Plunger



Figure 2-6A. Parking Brake Release Plunger (SJKB-33N)



Figure 2-6B. Parking Brake Release Plunger (SJKB-33i, 33C, 40i, 40C)

1. PARKING BRAKE RELEASE PLUNGER



DO NOT release the parking brakes on an incline. **DO NOT** release the parking brakes without the wheels being chocked.

1. PARKING BRAKE RELEASE PLUNGER - Located on the brake manifold in the hydraulic/electric cabinet, when this red plunger on the brake valve is depressed, the brake valve opens allowing accumulator pressure to immediately disengage the parking brakes.

Step 1. Disconnect the batteries by separating the 350 Amp Battery Connectors.

Step 2. Firmly depress the red plunger knob on the brake manifold. The brakes are now released.

NOTE
The brake will automatically return to normal operation when any hydraulic function is selected.