

SKYJACK™

Elevating the World

www.skyjackinc.com

SKYJACK™

OPERATING MANUAL

Models SJB-46TK®, -46TK®-RJ, -66TK®



SJB-TK BOOM

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
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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.

Table 2-11. General Specifications - SJB-46TK®, SJB-46TK®-RJ

BATTERY (Primary) BATTERY (Emergency)	12 Volt/850 CCA 12 Volt/1000 CCA
AMBIENT NOISE LEVEL	83db
ENGINE RPM SETTINGS (Ford) ENGINE RPM SETTINGS (Diesel)	900(idle), 2000, 2500,3000 1600(idle), 2600
FUEL (Standard) FUEL (Diesel option)	Non-blended unleaded No. 2 Diesel
GROUND CLEARANCE	12" (30.48cm)
TRAVEL SPEED (Elevated) TRAVEL SPEED (Stowed)	0-.8mph (0-1.29kph) 0-3.5mph (0-5.63kph)
INSIDE TURNING RADIUS (2WD) INSIDE TURNING RADIUS (4WD) OUTSIDE TURNING RADIUS (2WD) OUTSIDE TURNING RADIUS (4WD)	8'-4" (2.5m) 11'-11" (3.6m) 18'-4" (5.6m) 19'-1" (5.8m)
POWER (Ford LRG 423) POWER-Option(Deutz Diesel)	38 Horsepower 41 Horsepower
PIVOTAL HEIGHT	23'-10" (7.3m)
HORIZONTAL REACH	40'-4" (12.3m)
TAILSWING	3'-11" (1.2m)
FLOOR LOADING	Not Available at Printing
HYDRAULIC CAPACITY	60 gallons (226-liter)
FUEL CAPACITY	39 gallons (147-liter)

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⚠ WARNING

ANSI/SIA (United States)

You are required by ANSI/SIA A92.5 -1990 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 CON- DUCTOR.

(0 TO 300V)

AVOID CONTACT

(Over 300V to 50KV)

10

3.05

(Over 50KV to 200KV)

15

4.06

(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!

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

Table 2-7. Tire Specifications - SJB-46TK®, SJB-46TK®-RJ

Model	Tire		Fill Specification	
	Size	Rating	Type	Pressure
SJB-46TK	14 x 17.5	14 Ply	Air	96 PSI
HIGH FLOTATION (Optional)	35 x 16.1 lug	12 Ply	Air	

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Table 2-8. Maximum Platform Capacities - SJB-46TK®, SJB-46TK®-RJ

Model	Platform Capacity (unrestricted)
SJB-46TK	600# (272kg) 3 occupants
SJB-46TKRJ	500# (227kg) 2 occupants

NOTE: Refer to capacity label on work platform for additional information.

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Table 2-10. Standard Operating Times - SJB-46TK®, SJB-46TK®-RJ

Function	Seconds Grnd. or Platform
Turret cw	155 - 170
Turret ccw	155 - 170
Lift up	95 - 105
Lift down	60 - 70
Knuckle down	60 - 70
Knuckle up	70 - 80
Mid Boom out*	30 - 40
Mid Boom in*	20 - 30
Fly Boom out*	30 - 40
Fly Boom in*	20 - 30
Jib up	40 - 50
Jib down	20 - 30
Platform cw	25 - 35
Platform ccw	25 - 35

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NOTES

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 SJB-66TK work platform. Equipment identified with "ANSI/CSA" meets the ANSI/SIA-A92.5-1990 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 Operating/Maintenance and Parts 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 manufacturer's 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.

Table 2-6. General Specifications - SJKB-66TK

BATTERY (Primary) BATTERY (Emergency)	12 Volt/850 CCA 12 Volt/1000 CCA
AMBIENT NOISE LEVEL	83db
ENGINE RPM SETTINGS (Ford) ENGINE RPM SETTINGS (Diesel)	900(idle), 1600, 2100, 2600 1600(idle), 2600
FUEL (Standard) FUEL (Diesel option)	Non-blended unleaded No. 2 Diesel
GROUND CLEARANCE	12" (30.48cm)
TRAVEL SPEED (Elevated) TRAVEL SPEED (Stowed)	0-.8mph (0-1.29kph) 0-3.5mph (0-5.63kph)
INSIDE TURNING RADIUS (2WD) INSIDE TURNING RADIUS (4WD) OUTSIDE TURNING RADIUS (2WD) OUTSIDE TURNING RADIUS (4WD)	8'-4" (2.5m) 11'-11" (3.6m) 18'-4" (5.6m) 19'-1" (5.8m)
POWER (Ford LRG 423) POWER-Option(Deutz Diesel)	63 Horsepower 57 Horsepower
PIVOTAL HEIGHT	27' (8.2m)
HORIZONTAL REACH	58'-2" (17.7m)
TAILSWING	3' (.9m)
FLOOR LOADING	Not Available at Printing
HYDRAULIC CAPACITY	55 gallons (208-liter)
FUEL CAPACITY	45 gallons (170-liter)

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Table 2-5. Standard Operating Times - SJKB-66TK

Function	Seconds Grnd. or Platform
Turret cw	155 - 170
Turret ccw	155 - 170
Lift up	95 - 105
Lift down	60 - 70
Knuckle down	70 - 80
Knuckle up	105 - 115
Mid Boom out*	30 - 40
Mid Boom in*	20 - 30
Fly Boom out*	30 - 40
Fly Boom in*	20 - 30
Jib up	40 - 50
Jib down	20 - 30
Platform cw	25 - 35
Platform ccw	25 - 35

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SECTION 1 INTRODUCTION

PURPOSE OF EQUIPMENT

The SKYJACK SJB-TK Boom Work Platforms are designed to transport and raise personnel and tools to overhead and below grade work areas.

USE OF EQUIPMENT

The work platform (Fig. 1-2) is a highly maneuverable, mobile work station. The TK models are designed for both slab-type and rough terrain applications. **Lifting and elevated driving 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 on the rotating turret and platform.)

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 at either access through a sliding midrail bar 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 6 foot hydraulic boom jib, telescoping fly boom, telescoping mid boom, boom knuckle assembly and main boom. This mechanism uses double-acting hydraulic cylinders with holding valves to control movement of each boom.

TURRET - The turret rotates 360 degrees continuously. Within the turret are two main cabinets. One cabinet contains the base control box, main hydraulic manifold and function valves, emergency hydraulic pump and motor, and the primary and emergency batteries. The other cabinet contains the engine, and hydraulic pumps. The hydraulic oil and fuel tanks are also mounted on the turret with access to filler neck and level gauges through the removeable covers.

DRIVE CHASSIS - The base is a rigid one-piece weldment. Models equipped with dual fuel option have mounting straps for a propane tank on each side. The front axle has two non-driven wheels, steerable by a hydraulic cylinder (2WD models), or a hydraulic motor driven axle with an integrated cylinder for steering the wheels and spring-applied hydraulically-released parking brakes (4WD models). The rear axle is hydraulic motor driven (2WD models), or coupled to the front axle by a drive shaft (4WD models) and has spring-applied hydraulically-released parking brakes.

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

OPTIONAL ACCESSORIES - The SKYJACK SJB-TK Boom Work Platforms are 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 may 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.

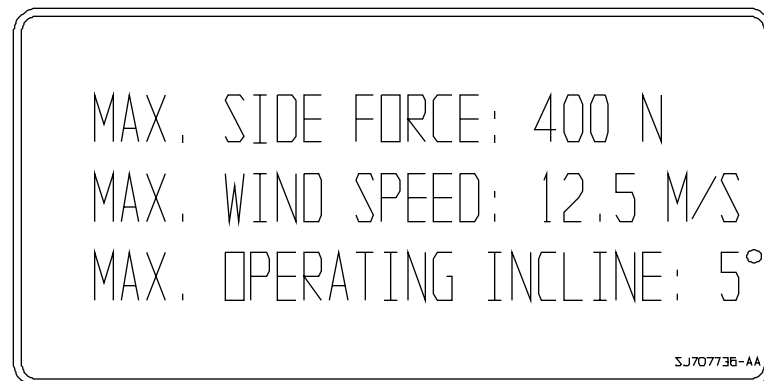


Figure 1-1. Front Panel Labels

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-66TK

Model	Tire		Fill Specification	
	Size	Rating	Type	Pressure
Standard	15 x 19.5	16 Ply	Air	95 PSI
HIGH FLOTATION (Option)	31 x 15.5 lug 31 x 13.5 rib	12 Ply 14 Ply	Air Air	85 PSI 85 PSI
FOAM FILLED (Option)	15 x 19.5	16 Ply	Solid Urethane	*

* 28 Durometer Fill installed at 55 psi

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Table 2-4. Maximum Platform Capacities - SJKB-66TK

Model	Platform Capacity (unrestricted)
SJB-66TK	600# (272kg) 3 occupants
WITH OPTIONAL 10' PLATFORM	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
Engine (11)						
Fuel leaks (1)	✓					✓
Engine oil (4)	✓					✓
Engine RPM (8)			✓			✓
Fuel filter (7)					✓	✓
Muffler (2)(3)(11)				✓		✓
Air cleaner (1)(7)			✓			✓
Fuel tank cap (2)(3)	✓					✓
Coolant level (1)(12)	✓					✓
Mechanical						
Struct. damage/welds (1)	✓					✓
Parking brakes (2)	✓					✓
Tires and wheels (1)(2)(3)	✓					✓
Guides and wear pads (1)(2)(3)	✓					✓
Railings and gate (2)(3)		✓				✓
Bolts and fasteners (3)	✓					✓
Rust (1)			✓			✓
Whl brgs (2) King pins (1)(6)				✓	✓	✓
Turret gear (1)(2)(3)(6)		✓				✓
Turret gear box (1)(2)(3)(4)		✓				✓
Pivot pins (1)	✓					✓
Steer cylinders/tie rod ends(6)				✓		✓
Axle gear oil (13)						✓
Electrical						
Battery fluid level (1)	✓					✓
Joysticks and control switches (1)(2)(3)	✓					✓
Cords and wiring (1)(3)	✓					✓
Battery terminals (1)(3)	✓					✓
Terminals and plugs (1)(3)	✓					✓
Generator and receptacle (2)	✓					✓
Limit switches (2)	✓					✓
Tilt sensors (2)	✓					✓
Directional sensing (2)	✓					✓
Emergency pump (2)		✓				✓
Hydraulic						
Hydraulic oil level (1)(4)	✓					✓
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 (6) Lubricate (7) Replace (8) See Table 5-7. General Specification Serial Number nameplate MT-66-500 (9) Replace if missing or illegible (10) Proper Operating Manual MUST be in the manual tube (11) Refer to engine manual (12) Check only when cooled (13) Change oil using 80W90, GL5 * Record inspection						

TABLE 1-1. SPECIFICATIONS AND FEATURES

Specifications

WEIGHT (SJB-66TK®)	34000 lb. (11703kg)
WEIGHT (SJB-46TK®)	18450 lb. (8369kg)
WEIGHT (SJB-46TK®-RJ)	18700 lb. (8482kg)
WORK HEIGHT (nominal) (SJB-66TK®)	71'9" (21.87m)
WORK HEIGHT (nominal) (SJB-46TK®)	52' (15.85m)
RAISED PLATFORM HEIGHT (nominal) (SJB-66TK®)	65'9" (20.04m)
RAISED PLATFORM HEIGHT (nominal) (SJB-46TK®)	46' (14.02m)
STOWED HEIGHT (SJB-66TK®)	9'0" (2.74m)
STOWED HEIGHT (SJB-46TK®)	8'1" (2.46m)
OVERALL WIDTH	8'0" (2.44m)
STOWED LENGTH (SJB-66TK®)	29'6" (8.99m)
STOWED LENGTH (SJB-46TK®)	27'4" (8.41m)
STOWED LENGTH (SJB-46TK®-RJ)	27'9" (8.46m)
PLATFORM CAPACITY (Unrestricted)	600 lb. (272kg)
PLATFORM CAPACITY (Unrestricted) (SJB-46TK®-RJ)	500 lb. (227 kg.)
PLATFORM SIZE (Standard)(SJB-66TK®)	30" x 96" (.76mx2.44)
PLATFORM SIZE (Standard)(SJB-46TK®), SJB-46TK®-RJ	30" x 72" (.76mx1.83m)
ELECTRICAL SYSTEM (Engine starting)	12 volt
GRADABILITY	30%+
TURRET ROTATION (Continuous)	360°
TIRE SIZE (SJB-66TK®)	15 x 19.5 Air Filled
TIRE SIZE (SJB-46TK®, SJB-46TK®-RJ)	14 x 17.5 Air Filled

Features

STANDARD EQUIPMENT

- 6 Foot Hydraulically Controlled Boom Jib
- 5 Foot Hydraulically Controlled Rotating Boom Jib (SJB-46TKRJ)
- Variable Speed Drive and Function Controls
- Telescopic Knuckle Assembly
- Continuous Drive and Steer Directional Sensing
- 12 Volt DC Emergency Power
- Engine Anti-restart Protection
- Spring-Applied Hydraulically Released Parking Brakes
- ANSI and CSA Standards Compliance
- 110V Outlet on Platform with GFI
- Ford VSG 413 Gasoline Engine (SJB-46TK®, SJB-46TK®-RJ)
- Ford LRG 423 Gasoline Engine (SJB-66TK)

OPTIONAL EQUIPMENT

- Operator Horn
- All Function Motion Alarm
- Travel Alarm
- Flashing Amber Light
- Spring-Loaded Half Gate
- Spring Loaded Full Gate
- Dual Fuel (Gas/Propane)
- 3500 Watt Hydraulic Generator
- Cold Weather Start Package
- 30" x 72" & 30" x 120" Platform (SJB-66TK)
- 30" x 96" Platform (SJB-46TK®, SJB-46TK®-RJ)
- Four Wheel Drive
- Diesel Engine
- Chassis Lights
- Platform Work Lights
- Air or Hydraulic Line to Platform
- Platform Overload Sensing (France)
- 8 Meter Drive Cutout (Europe)(SJB-46)

WORK PLATFORM MAJOR COMPONENT IDENTIFICATION

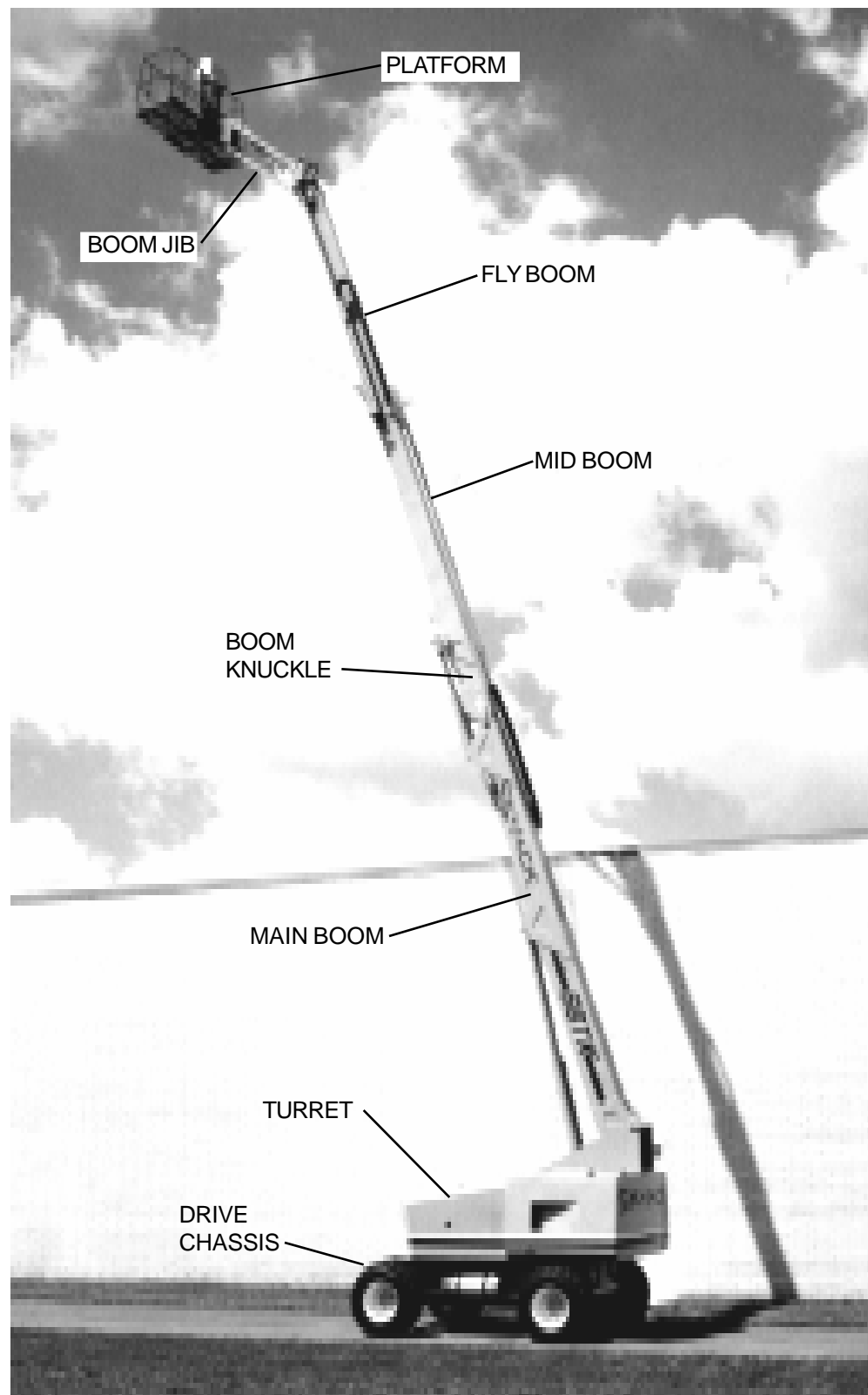


Figure 1-2. SKYJACK SJB-66TK Boom Work Platform

16. **TO MOVE THE BOOM UPWARD:** Slowly move the Boom Up/Down, Turret Rotate Controller to the "↑" (up) position. Release the controller to stop.
17. **TO MOVE THE BOOM DOWNWARD:** Slowly move the Boom Up/Down, Turret Rotate Controller to the "↓" (down) position. Release the controller to stop.
18. **TO ROTATE THE TURRET CLOCKWISE:** Slowly move the Boom Up/Down, Turret Rotate Controller to the "↻" (cw) position. Release the controller to stop.
19. **TO ROTATE THE TURRET COUNTER-CLOCKWISE:** Slowly move the Boom Up/Down, Turret Rotate Controller to the "↺" (ccw) position. Release the controller to stop.
20. **TO EXTEND THE BOOM ARM:** Slowly move the Boom Extend/Retract Controller to the "⇧" (extend) position. Release the controller to stop. (This function is automatically sequenced so the mid boom will always extend first, followed by the fly boom.)
21. **TO RETRACT THE BOOM ARM:** Slowly move the Boom Extend/Retract Controller to the "⇩" (retract) position. Release the controller to stop. (If the retract dissable light is on, the boom is in a knuckle down position.) The boom knuckle must be in the full up position to retract the mid boom. (This function is automatically sequenced so the fly boom will always retract first.)
22. **TO MOVE THE BOOM KNUCKLE DOWN:** Slowly move the Knuckle Up/Down Controller to the "↓" (down) position. Release controller to stop. This function only becomes available when the mid boom has been fully extended, as indicated by the green Knuckle Enable Light on the control console.
23. **TO MOVE THE BOOM KNUCKLE UP:** Slowly move the Knuckle Up/Down Controller to the "↑" (up) position. Release controller to stop. This function only becomes available when the mid boom has been fully extended, as indicated by the green Knuckle Enable Light on the control console.
24. **TO SOUND THE HORN:** Press the Horn Toggle Switch to the "↑" (up) position.
25. **TO OPERATE USING THE EMERGENCY PUMP:** Raise the cover on the Emergency Pump Select Toggle Switch. Press and hold the switch to the "↑" (up) position. When the switch is released, power to the auxiliary pump will be

disconnected. This function is intended to be used in the event of an engine failure to lower the work platform or enable the unit to be loaded onto a trailer using a winch line. This function is not intended to be use for an extended period of time.

Shutdown Procedure

1. Completely retract the boom and lower the platform.
2. Push in the Emergency Stop Buttons.
3. Rotate the Engine Stop/Run/Start Select Switch to the "⊘" (stop) position.
4. Rotate the Off/Platform/Base Key Switch to the "⊘" (off) position. Remove the key.

Loading and Tie Down Procedure

1. With mid and fly boom sections fully retracted and trailer on firm level ground. Align the tires of the boom with the back end of the trailer.
2. Select low speed on the platform throttle control and slightly raise jib and/or boom for ground clearance while loading. Slowly and carefully drive the machine on to the trailer. In the event of an engine failure the Emergency Pump can be used to raise the boom, and steer the work platform while winch loading.

NOTE

For loading and unloading using a winch line, see the drive motor disengage and brake manifold portions of this section.

3. With machine loaded on trailer, tie down as recommended. (Refer to Figure 2-11.)
4. Remove turret lock retaining pin. Lower turret lock into locked position and reinstall turret lock retaining pin.

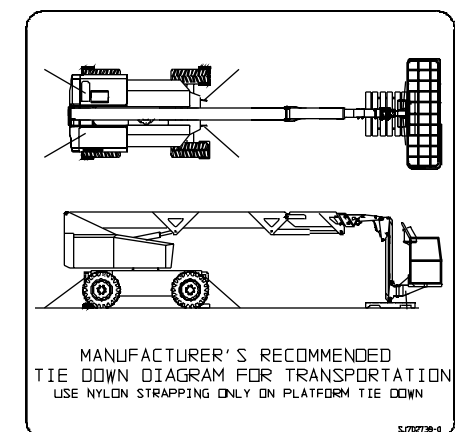


Figure 2-11. Recommended Tie Down Locations

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.

Prestart Checks

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

Start and Operation

At the base control panel:

1. Pull out the Emergency Stop Button.
2. Select "P" (platform) with Off/Platform/Base Select Key Switch.
3. Enter the platform by sliding the entry bar upward. Make sure the entry bar returns to midrail position. Close the gate (if so equipped).

Using the platform controls:



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!**

4. Attach the safety belt lanyards of each occupant to the platform lanyard rings.
5. Pull out the Emergency Stop Button.
6. Select desired fuel source using the Fuel Source Select Switch. (Machines with dual fuel option) Press and hold Glow Plug Switch for 15 to 20 seconds, then release. (Machines with diesel engine option)
7. Turn Engine Stop/Run/Start Select Switch to the "⊕" (start) position until engine starts, then release. **DO NOT** over crank the starter. (If engine fails to start after multiple attempts, consult the TROUBLE SHOOTING section in the Operational Maintenance and Parts Manual).
NOTE Engine will not start if foot switch is depressed.

8. Select desired engine RPM using the Engine Speed Select Switch.

REMEMBER

The following 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!



DO NOT drive the boom when the platform position does not allow the operator a clear view of the chassis

- The operator should not drive or steer while below-grade, or in a position where he cannot see the chassis.
- Before the operator goes into a position where he cannot see the chassis, the operator and "the spotter" shall verify that the intended path of travel is clear of obstruction. This shall be done by driving the TK unit from a position in which the chassis is visible without changing the steering angle, along the length of the travel path.
- Area of operation should be marked off with cones or fenced off with black/yellow warning tape.

9. **TO DRIVE FORWARD:** Slowly move the Drive/Steer Controller handle to the "↑" (forward) position. Release controller handle to stop.
10. **TO DRIVE IN REVERSE:** Slowly move the Drive/Steer Controller handle to the "↓" (reverse) position. Release controller handle to stop.
11. **TO STEER:** Move the Drive/Steer Controller handle in the direction you wish to steer.
12. **TO MOVE THE JIB UP:** Slowly move the Jib Up/Down, Platform Rotate Controller to the "↑" (up) position. Release the controller to stop.
13. **TO MOVE THE JIB DOWN:** Slowly move the Jib Up/Down, Platform Rotate Controller to the "↓" (down) position. Release the controller to stop.
14. **TO ROTATE THE PLATFORM TO THE LEFT:** Slowly move the Jib Up/Down, Platform Rotate Controller to the "←" (left) position. Release the controller to stop.
15. **TO ROTATE THE PLATFORM TO THE RIGHT:** Slowly move the Jib Up/Down, Platform Rotate Controller to the "→" (right) position. Release the controller to stop.

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. (Refer to Table 2-2. in this manual.)

GENERAL MAINTENANCE HINTS

- Before attempting any repair work, disconnect the battery by turning the Battery Disconnect Switch to the "OFF" position.
- Preventative 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 on Pages 8 through 9 in this manual.

Base Controls - Electrical
Base Control Panel

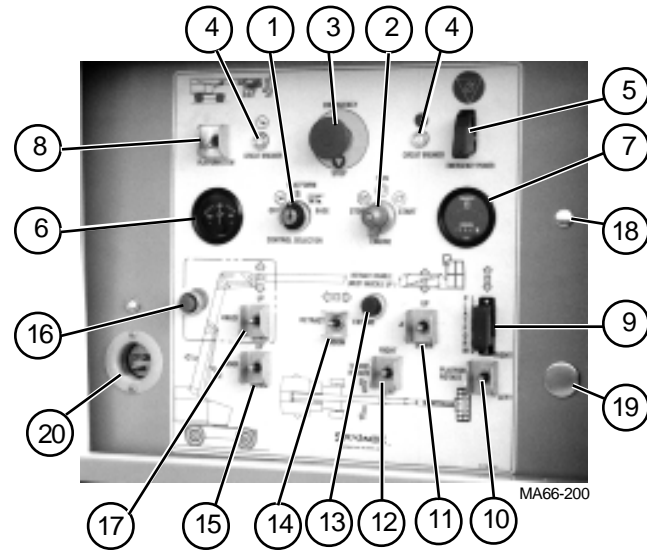







Figure 2-1. Base Control Panel and Label

1. OFF/PLATFORM/BASE SELECT KEY SWITCH
2. ENGINE OFF/RUN/START SELECT SWITCH
3. EMERGENCY STOP BUTTON
4. CIRCUIT BREAKERS
5. EMERGENCY PUMP SELECT TOGGLE SWITCH
6. CHARGING AMPERAGE GAUGE
7. ENGINE HOUR METER
8. MANUAL PLATFORM STOWING TOGGLE SWITCH
9. MANUAL PLATFORM LEVELING SWITCH
10. PLATFORM/JIB ROTATE TOGGLE SWITCH
11. JIB UP/DOWN TOGGLE SWITCH
12. TURRET ROTATE TOGGLE SWITCH
13. RETRACT DISABLE LIGHT
14. BOOM RETRACT/EXTEND TOGGLE SWITCH
15. BOOM LIFT UP/DOWN TOGGLE SWITCH
16. KNUCKLE ENABLE LIGHT
17. BOOM KNUCKLE UP/DOWN TOGGLE SWITCH
18. GLOW PLUG SWITCH (Diesel option)
19. COLD WEATHER START OPTION RECEPTACLE
20. 110 VOLT RECEPTACLE (Power to platform) or VOLT METER FOR GENERATOR OPTION

BASE CONTROL PANEL - This control station, located on the side of the rotating turret, 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 in the “” (base) position, power is directed to the control station on the base.

2. ENGINE STOP/RUN/START SELECT SWITCH - Turning the switch to the “” (start) position will engage the starter, once the engine starts, release the switch and it will return to the “” (run) position. To stop the engine turn the switch to the “” (off) position. The engine must be running before any functions can be operated.

3. 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.




Depressing the Emergency Stop Button instantly engages parking brakes.

4. CIRCUIT BREAKER - 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.

5. EMERGENCY PUMP SELECT TOGGLE SWITCH - In the event of an emergency, moving this toggle switch to the “↑” (up) position kills the engine, enables the 12 volt emergency pump and allows all functions, except drive to be operated. To resume normal operation, move the switch to the down position by closing the switch cover.

6. AMPERAGE GAUGE - With the engine running, this gauge monitors battery charging amperage.

7. HOUR METER - Activated by the engine oil pressure switch, this gauge measures engine running time.

8. MANUAL PLATFORM STOWING TOGGLE SWITCH - This feature is used to fold the platform below the boom arm for minimum stowed length. With the Off/Platform/Base Select Key Switch in the “” (base) position. Fully retract the Mid and Fly boom sections. Elevate the platform from contacting the ground. Hold the Manual Platform Stowing Toggle Switch in the “↑” (up) position (**this switch must be held through the entire stowing procedure**) and fully lower the boom jib. With the Manual Platform Leveling Switch, tilt the platform below the boom. Lower the boom to the desired position and release the Manual Stowing Switch. To resume normal operation, hold the Platform Stowing Toggle Switch in the “↑” (up) position and raise the boom until there is sufficient ground clearance for the platform to swing out. Release the stowing switch and continue to raise the boom, the automatic leveling system will return the platform to its working position.

OPERATOR’S CONTROL CONSOLE - This 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. ENGINE STOP/RUN/START SELECT SWITCH - This rotating switch controls engine starting and operation. To start engine **Do Not** depress the foot switch.

2. ENGINE SPEED SELECT SWITCH - This three position switch is used to control engine running speed. When the foot switch is released, the engine returns to idle speed.

3. DRIVE/STEER CONTROLLER - This lever-type controller allows the operator to drive in forward and reverse and steer left and right.

4. JIB UP/DOWN AND PLATFORM ROTATE CONTROLLER - This lever-type controller allows the operator to choose the direction and vary the speed for jib up/down movement and platform right/left rotation.

5. BOOM KNUCKLE UP/DOWN CONTROLLER - This lever-type controller allows the operator to choose the direction and vary the speed of the knuckle up/down movement. This function is only available when the mid boom is fully extended and the Knuckle Enable Indicator Light is on.

6. KNUCKLE ENABLE INDICATOR LIGHT - This green indicator light informs the operator that the knuckle function is available to be used. The knuckle function will not operate until this light is on.

7. ENGINE WARNING LIGHT - This red light indicates that the engine oil pressure is low or the engine is overheating.

8. TILT SENSOR INDICATOR LIGHT & BUZZER - This red light and buzzer indicates that the work platform is on a slope. If machine is elevated at this time drive function will be unoperable. Return machine to fully lowered position and drive to flat level ground. Sensor will reset automatically and elevated driving will be restored.

9. EMERGENCY PUMP SELECT TOGGLE SWITCH - In the event of an emergency, lifting the switch cover and holding this switch in the up position kills the engine and enables all functions, except drive to be operated using the 12 volt emergency pump. If the switch is released, power to the emergency pump is disconnected.

10. BOOM EXTEND RETRACT CONTROLLER - This lever-type controller allows the operator to extend or retract the boom and vary the speed of the function. NOTE - The mid boom will not retract if the retract disable light is on.

11. HORN TOGGLE SWITCH (Optional) - The horn can be sounded by pushing this toggle switch to the up position.

12. BOOM UP/DOWN AND TURRET ROTATE CONTROLLER - This lever-type controller allows the operator to choose the direction and vary the speed for boom up/down movement or turret right/left rotation.

13. DUEL FUEL SELECT SWITCH TOGGLE SWITCH (Option) - This switch allows the operator to select the fuel source to be used.

14. 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.



Depressing the Emergency Stop Button instantly engages parking brakes.

15. PLATFORM WORK LIGHT and/or CHASSIS HEAD LIGHTS TOGGLE SWITCH (Optional) - This switch controls power to the platform mounted work lights and/or the chassis mounted head lights.

16. GLOW PLUG TOGGLE SWITCH (Diesel option) - This switch activates the diesel engine glow plugs. Prior to starting the engine hold this switch in the up position for 15-20 seconds.

17. HYDRAULIC GENERATOR TOGGLE SWITCH (Optional) - This switch operates the optional hydraulic 110 volt generator to supply power to the platform mounted 110 volt outlet.

18. RETRACT DISABLE LIGHT - This red indicator light informs the operator that the boom is in a knuckle down condition, the mid boom cannot retract until the knuckle is in a full up position.

1. PARKING BRAKE OVERRIDE VALVE PLUNGER
2. PARKING BRAKE RELEASE HAND PUMP

BRAKE MANIFOLD - This manifold is located near the Base Control Panel on the rotating turret, and accessed by opening the hydraulic/electric cabinet door. It contains the following controls:



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

1. PARKING BRAKE OVERRIDE VALVE PLUNGER - When this red plunger is pulled out, the brake hydraulic circuit is isolated allowing use of the parking brake hand pump.

2. PARKING BRAKE RELEASE HAND PUMP - The hand pump **MUST** be used to disengage the parking brakes. To release the parking brakes the procedure below **MUST** be followed:

Step 1. Firmly pull out the red plunger on the Brake Manifold until the knob remains out.

Step 2. Grasp the black hand pump plunger and pump rapidly until firm resistance is felt and the brake pressure gauge reaches 700 psi. The brakes are now release. (Although the gauge reading may decrease the brakes will remain released until pressure drops below 300 psi.)

NOTE

To return brakes to normal operation depress red plunger or operate any hydraulic function other than steering.

Platform Controls - Electrical Foot Switch

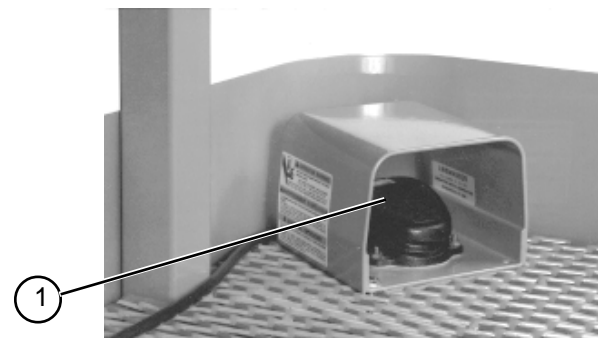


Figure 2-9. Foot Switch

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 cut out.

NOTE

Engine will not start with foot switch depressed.

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 the foot switch is released the parking brakes are immediately engaged.

Operator's Control Console

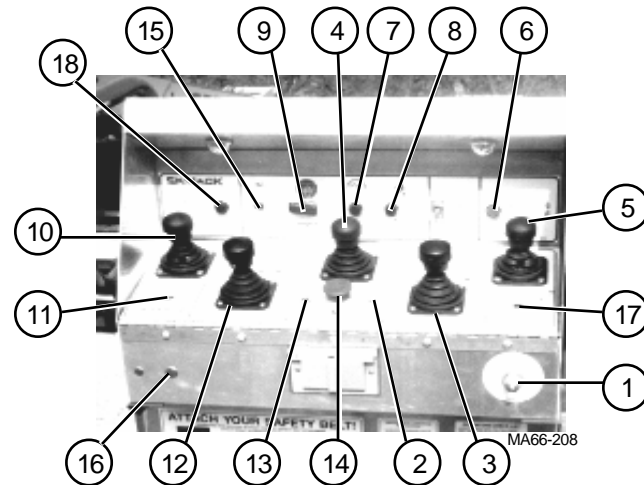


Figure 2-10. Operator's Control Console and Label

1. ENGINE STOP/RUN/START SELECT SWITCH
2. ENGINE SPEED SELECT SWITCH
3. DRIVE/STEER CONTROLLER
4. JIB UP/DOWN, PLATFORM ROTATE CONTROLLER
5. BOOM KNUCKLE UP/DOWN CONTROLLER
6. BOOM KNUCKLE ENABLE INDICATOR LIGHT
7. ENGINE WARNING LIGHT
8. TILT SENSOR INDICATOR LIGHT
9. EMERGENCY PUMP SELECT TOGGLE SWITCH
10. BOOM EXTEND/RETRACT CONTROLLER
11. HORN TOGGLE SWITCH (Option)
12. BOOM UP/DOWN, TURRET ROTATE CONTROLLER
13. DUEL FUEL SELECT SWITCH (Option)
14. EMERGENCY STOP BUTTON
15. PLATFORM WORK LIGHTS and/or CHASSIS HEAD LIGHTS TOGGLE SWITCH (Option)
16. GLOW PLUG SWITCH (Diesel option)
17. HYDRAULIC GENERATOR OPTION TOGGLE SWITCH
18. RETRACT DISABLE INDICATOR LIGHT



Before using the platform stowing feature. Remove all loose items from platform i.e. tools, work materials, etc. Check around platform for any obstacles that may be in the path of travel of the platform. **DO NOT** use the stowing feature with a person in the platform.

9. MANUAL PLATFORM LEVELING TOGGLE SWITCH

- This switch is to be used with the Manual Platform Stowing Toggle Switch to level the platform or for stowing the platform below the boom. This switch will not operate unless the Platform Stowing Switch is being held in the "↑" (up) position.

10. 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.

11. 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.

12. TURRET ROTATION TOGGLE SWITCH

- This switch controls clockwise and counter-clockwise 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.

13. RETRACT DISABLE LIGHT

- This red indicator light informs the operator that the boom is in a knuckle down condition and the mid boom retract function is not available. The boom knuckle must be in the full up position to allow the mid boom to be retracted.

14. BOOM RETRACT/EXTEND TOGGLE SWITCH

- This switch controls the retraction and extension of the telescoping boom arm. This function is automatically sequenced so the mid boom always extends first and retracts last. 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.

15. 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.

16. KNUCKLE ENABLE LIGHT

- This green indicator light notifies the operator when the mid boom has been fully extended and the boom knuckle feature is available. If this light is not on the boom knuckle function is not available and will not operate.

17. BOOM KNUCKLE UP/DOWN TOGGLE SWITCH

- This switch controls the up/down movement of the boom knuckle section. To lower the knuckle section, push and hold this toggle switch to the "↓" (down) position. Release switch to stop. To raise the knuckle section, push and hold this toggle switch to the "↑" (up) position. Release switch to stop.

18. GLOW PLUG TOGGLE SWITCH (Diesel option)

- This switch activates the diesel engine glow plugs. Prior to starting the engine hold this switch in the up position for 15-20 seconds.

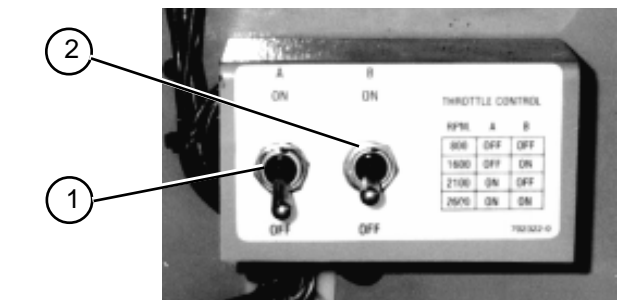
19. COLD WEATHER START RECEPTACLE OPTION

- This receptacle is used for A.C. connection on machines equipped with the Cold Weather Start Option.

20. 110 VOLT RECEPTACLE (Power to platform) or VOLT METER FOR GENERATOR OPTION

- This 110 volt receptacle provides power to platform on standard machines or replaced by a volt meter for machines equipped with the Hydraulic Generator Option.

Engine Throttle Control Switches



MA66-201

Figure 2-2. Engine Throttle Control Switches

1. ENGINE THROTTLE CONTROL SWITCH "A"
2. ENGINE THROTTLE CONTROL SWITCH "B"

ENGINE THROTTLE CONTROL SWITCHES

- These switches located on the engine tray side plate inside the engine cabinet are used to control the engine RPM for engine service, adjustment, or diagnostic testing. To allow full range of RPM at this control the Off/Platform/Base Select Key Switch must be in the "P" (platform) position. Machines with diesel option have only one switch and two available RPM ranges.

Battery Disconnect Switches

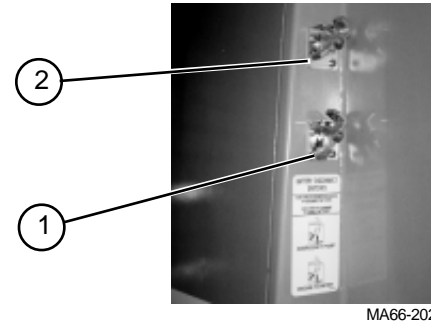


Figure 2-3. Battery Disconnect Switches

- ENGINE BATTERY DISCONNECT SWITCH
- EMERGENCY BATTERY DISCONNECT SWITCH

BATTERY DISCONNECT SWITCHES - These switches, located on the fuel tank cover of the turret, disconnect power from both the starting battery and the emergency battery for servicing, shipping and machine shutdown. Both switches **SHOULD** be in the "ON" position when operating the machine.

Base Controls - Mechanical Manual Fuel Shut-Off Valve

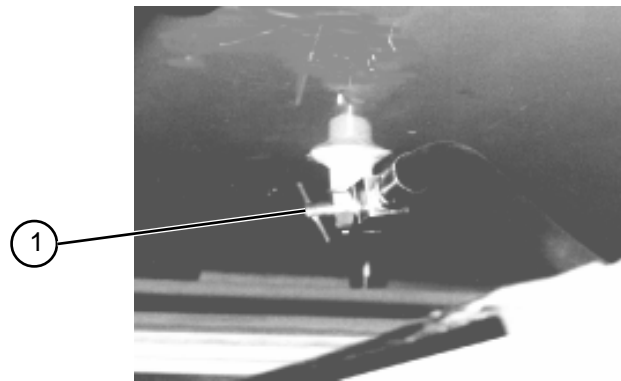


Figure 2-4. Fuel Shut-Off Valve

- FUEL SHUT OFF VALVE

1. FUEL SHUT OFF VALVE - This valve located in the fuel supply line on the bottom of the fuel tank turns off the supply of fuel to the fuel pump.

Turret Transportation Lock

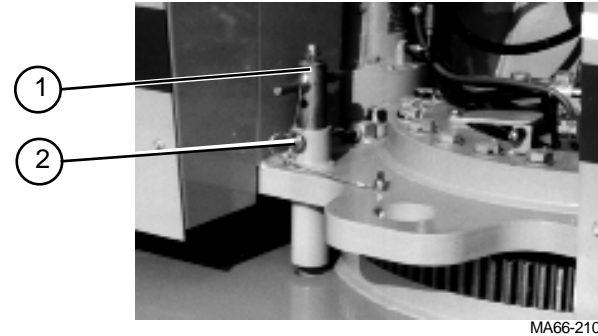


Figure 2-5. Turret Transportation Lock

- TURRET TRANSPORTATION LOCK
- TURRET TRANSPORTATION LOCK RETAINING PIN

1. TURRET TRANSPORTATION LOCK - This locking device, located on the turret base plate near the rotation gear, is used to lock the turret in place during shipping only.

2. TURRET TRANSPORTATION LOCK RETAINING PIN - This retaining pin is used to hold the transportation lock in either the locked or unlocked position.

Base Controls - Hydraulic Manual Hydraulic Fluid Shut-Off Valve

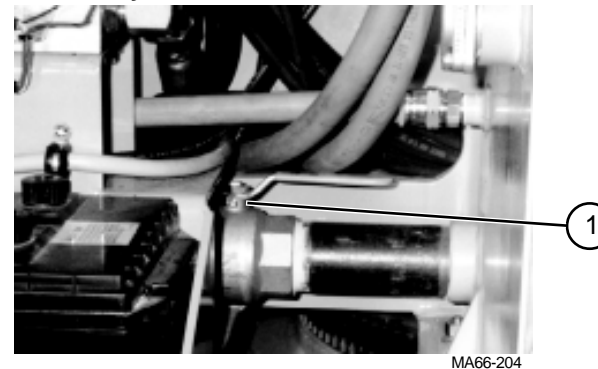


Figure 2-6. Hydraulic Fluid Shut-Off Valve

- HYDRAULIC FLUID SHUT OFF VALVE

1. HYDRAULIC FLUID SHUT OFF VALVE - This valve located in the hydraulic fluid supply line on the hydraulic tank turns off the supply of hydraulic fluid to the pumps. **DO NOT** start or run the engine with this valve closed.

Drive Relief Valve Overrides (SJB-66TK - Later Models)

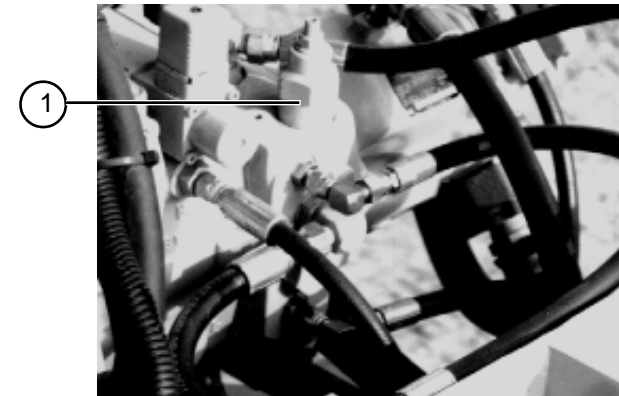


Figure 2-7. Drive Pump

- DRIVE RELIEF VALVE WITH OVERRIDE STEM

1. DRIVE RELIEF VALVE WITH OVERRIDE STEM. The relief override stems, located on the top and bottom of the Drive Pump, are used to override the drive relief valves allowing the machine to be loaded or unloaded from a trailer using a winch line. To override the drive relief valve the procedure below **MUST** be followed:



DO NOT attempt to override the relief valves without the wheels chocked.

- Place the machine on a flat level surface and chock the wheels to prevent from rolling.
- Loosen the retaining nut on the relief valve override stem. Screw in the override stem (clockwise) until it stops. Repeat this step for both relief valves.
- Release the parking brake (see Brake Manifold in this section). The machine is now ready to be loaded or unloaded using a winch line.
- Once the machine has been loaded or unloaded unscrew the override stem (counter-clockwise) until it stops and reset the retaining nut.



DO NOT tow. This procedure is intended for loading and unloading the machine using a winch line and should not be used to tow the machine.

Drive Motor Disengage Lever (SJB-66TK - Earlier Models)

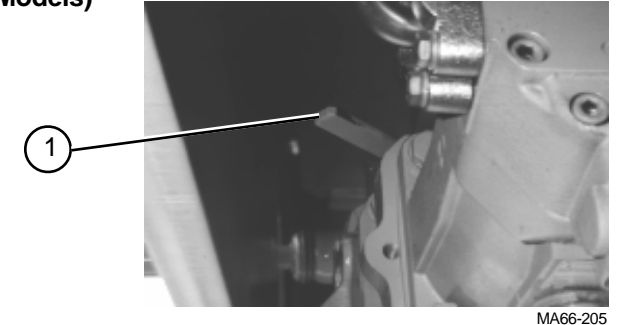


Figure 2-7. Drive Motor Disengage Lever

- DRIVE MOTOR DISENGAGE LEVER

1. DRIVE MOTOR DISENGAGE LEVER - This lever is located on the top side of the planetary gear box at the rear drive axle (2WD models), or on the top side of the transfer case on the front axle (4WD models) and is held in position with an allen head set screw. This lever is used to disengage the drive motor for winching the machine onto or off of a transport vehicle if desired. To disengage the drive motor the procedure below **MUST** be followed:

- Place machine on a flat level surface and chock wheels to prevent from rolling.
- Remove set screw from lever and rotate lever towards rear of machine (2WD models) or towards front of machine (4WD models) to disengage drive motor. Reinstall set screw to hold lever in position.
- Release the parking brakes using the brake release procedure described in the base hydraulic controls portion of this section.



DO NOT tow. This procedure is intended for loading and unloading with a winch line only.



DO NOT attempt to disengage the drive motor without the wheels chocked.

DO NOT release brakes prior to disengaging motor.

Brake Manifold

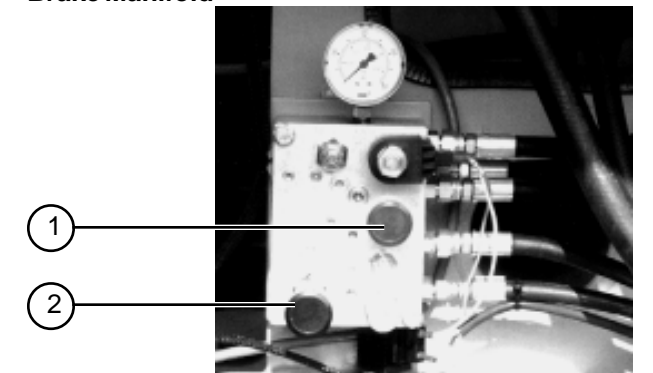


Figure 2-8. Brake Manifold