

OPERATING MANUAL (ANSI)

TELEHANDLERS

MODELS SJ643 TH SJ843 TH

194824AIA May 2017

SKYJACK

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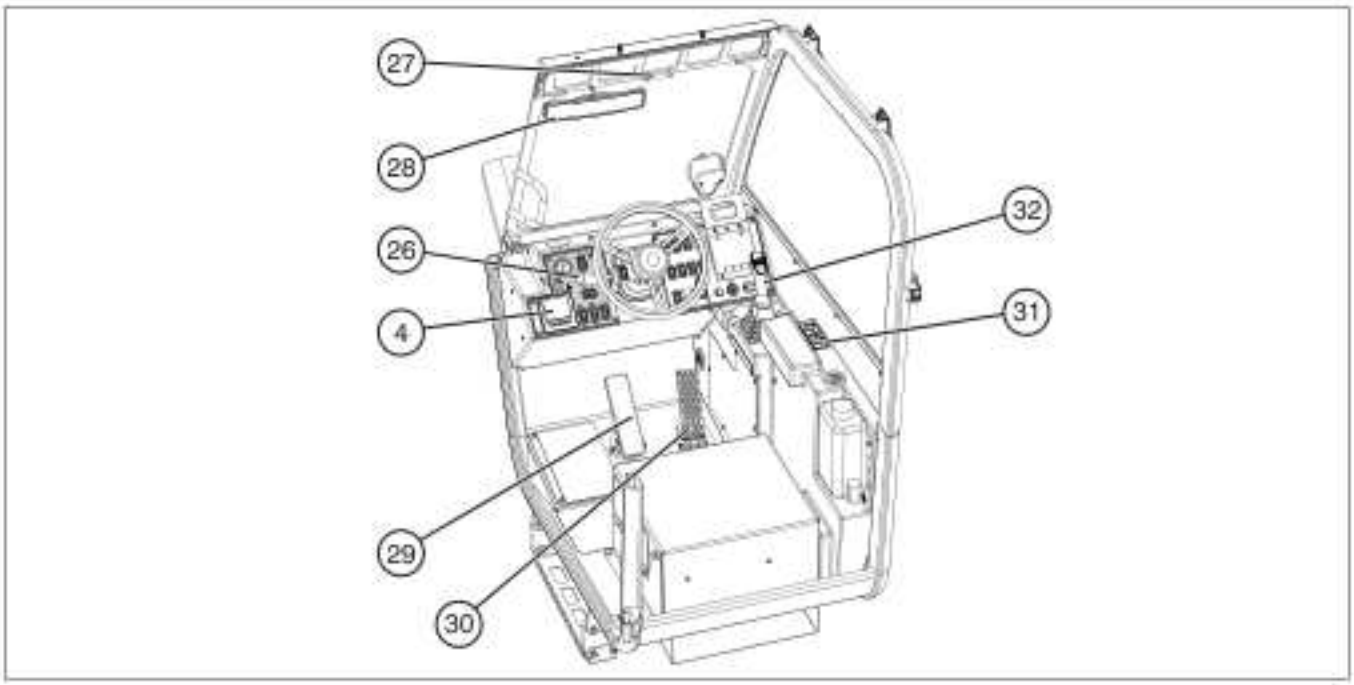
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26. Direction Control Lever - This lever allows forward or reverse travel. The center position is neutral. To select forward travel, lift from lock position and move the direction control lever to the "FWD" forward position; for reverse travel move lever to "REV".

27. Level Indicator - Located on the upper cross member of the overhead guard. When the ball is centred in the indicator, this indicates that telehandler frame is level.

28. Rear View Mirror - Allows the operator to check the surrounding area behind telehandler.

29. Brake Pedal - The service brake is foot operated and is used to decrease speed or stop.

30. Accelerator Pedal - Press pedal to increase speed and release pedal to decrease speed.

31. Cab Heater and Air Conditioner Controls (If Equipped) - A switch and two knobs to adjust the temperature inside the cab.

32. Standard Multi-functional Joystick - This dual-axis lever is a multi-functional control allowing the operator to control boom operation (extend or retract and up or down), frame leveling, fork tilt, and auxiliary functions such as carriage side tilt or carriage swing. The lever returns to neutral position when released.

a) Raise the boom by moving joystick backward "". Lower the boom by moving the joystick forward "".

b) Extend the boom by moving the joystick to the right "". Retract the boom by moving the joystick to the left "".

c) Tilt attachment forward by pressing and hold attachment tilt enable switch "" and moving joystick forward "".

Tilt attachment backwards by prssing and holding attachment tilt enable switch "" and moving joystick backward "".

d) Frame level right by pressing and holding frame level enable switch "" and moving joystick to the right "".

Frame level left by pressing and holding frame level enable switch "" and moving joystick to the left "".

e) Left auxiliary function (if equipped) is operated by pressing and holding the left button "".

Right auxiliary function (if equipped) is operated by pressing and holding the right button "".

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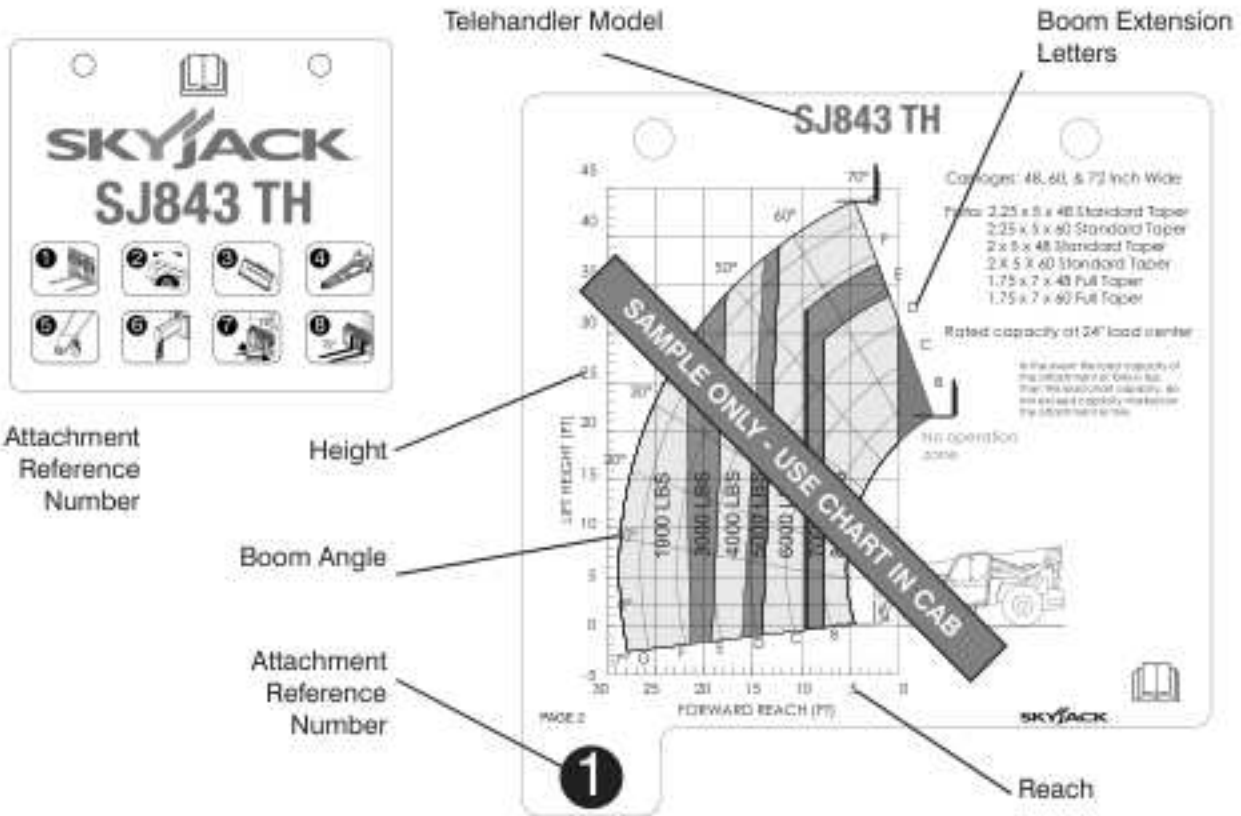


Fig 2-23 Sample Capacity Chart

2.12 Use of the Capacity Charts

The capacity charts are located in the operator's cab. They are used to determine maximum load capacity for telehandler equipped with different attachment combinations.

To properly use a particular capacity chart, the operator must first determine the following:

1. Ensure the capacity chart is for the specific telehandler model and the attachment.
2. Determine the weight of the load to be lifted.
3. Ensure that the load center for the load is at or within the load center specified for the attachment.
4. Determine the height where the load is to be picked or placed.
5. Determine the reach where the load is to be picked or placed
6. The maximum capacity is determined by the intersection lines between height and reach on the capacity chart. If the intersection of the lines occurs at a division between capacity zones, the smaller of the two capacity values must be used.

NOTE

The weight of the load must be equal to or less than the number in the capacity zone.

⚠ WARNING

When handling loads, ensure that boom extension indicator and boom angle indicator remain within previously determined/calculated capacity zone.

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General Maintenance

Before attempting any repair work, turn ignition switch to off position. Preventive maintenance is the easiest and least expensive type of maintenance.

Table 2.5 Maintenance and Inspection Schedule

Frequency	Daily	Weekly	Quarterly or 250 hours	Annually or 1000 hours
Visual and Daily Maintenance Inspections				
Labels	A		C*†	
Electrical	A			
Mirrors	A			
Hydraulic	A			
Cylinders	A			
Frame	A			
Wheel/Tire Assembly	A			
Air-filled Tires	A			
Foam-filled Tires	A			
Drive Axles	A			
Steer Cylinder	A			
Battery	A			
Engine Intake Air Filter	A			
Engine Coolant	A			
Fuel Tank				
Fuel Leaks				
D.E.F. Tank				
Hydraulic Oil Tank				
Hydraulic Oil				
Engine Compartment				
Engine Oil Level on dipstick	A			
Engine Coolant	A			
Belts	A			
Hydraulic Pump	A			
Fuel/Water Separator	A			
Transmission				
Oil level on dipstick	A			
Boom				
Boom Angle Switches	A			
Slide Pads	A			
Chain	A			
Boom Angle Indicator	A			
Lifting Attachment	A			
Grease Fittings				
Operator's Cab				
ROPS/FOPS	A			
Seat	A			
Pedals	A			
Manual	A			
Operator's Cab Controls	A			

Frequency	Daily	Weekly	Quarterly or 250 hours	Annually or 1000 hours
Function Tests				
Operator's Cab Controls			C*†	
Test Starter Operation	A			
Test Horn	A			
Test Lights (If Equipped)	A			
Test Boom Functions	A			
Test Attachment Functions	A			
Test Frame Leveling and Level Indicator	A			
Test Frame Leveling and Boom Interlock	A			
Test Accelerator Pedal	A			
Test Reverse Alarm, Driving & Service Brake	A			
Test Steering	A			
Test Positive Shut-off Valve	A			
Test Parking Brake	A			
Test Outriggers (If Equipped)	A			

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A - Perform Visual and Daily Maintenance Inspections & Functions Test. Refer to Section 2.8 and Section 2.9 of this manual.

B - Perform Visual and Weekly Maintenance Inspections & Functions Test. Refer to Section 2.8 and Section 2.9 of this manual.

C - Perform Scheduled Maintenance Inspection. Refer to Service & Maintenance manual.

***** - Maintenance must be performed only by trained and competent personnel who are familiar with mechanical procedures.

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Safety Precautions (Continued)

Know and understand all safety precautions before going on to the next section.

- **DRIVE UPHILL LOADED**. When holding a load, driving uphill decreases potential for load to slip out.



- **LEVEL FRAME ON SLOPES** before elevating the boom.



- **WHEN TRANSPORTING LOADS** fully retract the boom, keep the load low to the ground and forks tilted back slightly. This is the most stable position possible for the vehicle.



- **KEEP** forks close to the ground when in motion to increase telehandler stability and decrease potential for injury to others. When fully stopped, lower forks completely to the ground.



- **TILT** forks backward slightly when traveling to decrease potential of load slipping off.



- **SECURE** loose loads with chains or straps to decrease potential of spills or injury to others.



- **TETHER LOADS** that may swing, keeping them close to the ground. Provide ample clearance for personnel to guide the load safely.



- **SLINGING LOADS** is acceptable only when the load is appropriately attached to the lifting hook, a jib boom or the throat of a tilted fork, and the precautions outlined in Section 2.13 are followed.



- **BE AWARE** of the telehandler's travel envelope, especially when turning. Keep sufficient clearance at all times between the telehandler and any obstacles or people.



- **KEEP OTHERS AWARE** at all times during operation.



- **CHECK** lights for proper function before operating.



- **ENSURE ALL** tires are in good condition and lug nuts are properly tightened.



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2.14-6-2 It is permissible to install and utilize a third-party platform for elevating personnel ("man-basket"), provided the following conditions are met:

WARNING

As per ANSI/ITSDF B56.6 and CSA B335, the RTFL must not be used to lift personnel unless there is no other practical option.

The minimum requirements for the design, construction and use of the man-basket attachment shall be as specified in ANSI/ITSDF B56.6 and CSA B335. Any additional requirements of local authorities must also be followed.

The combined mass of the platform, load, and personnel shall not exceed one-third of the capacity at 24" from the base of the RTFL forks.

The man-basket must have reflective material or an equivalent paint or material on the exterior front and sides so that it can be seen and readily identified as a man-basket when in use.

All instructions provided by the manufacturer of the man-basket must be followed.

The man-basket must be securely attached to the RTFL forks.

The RTFL must not travel when personnel are in the man-basket. Travel controls on the RTFL must be restricted when the man-basket is in use. Prior to using the man-basket, the RTFL operator must engage the parking brake and place the RTFL transmission in neutral.
No mobile equipment is permitted to operate in the immediate area when the RTFL and man-basket is operating.

Once the man-basket is positioned at the desired height, the operator must shut the engine off to prevent inadvertent movement. An operator must be in the RTFL cab if personnel are in the man-basket.

Prior to using the man-basket on each shift, the RTFL operator must visually examine the man-basket for structural integrity and perform the daily inspection and function tests on the RTFL. Any equipment defects must be repaired before the man-basket or RTFL can be used.

Radio or hand communication signals must be established between the RTFL operator and personnel in the man-basket. Signals must be clearly understood by all personnel performing the work. All workers must receive training and understand the signals. All radio communication must be heard above the noise of the surrounding environment and understood by the personnel in the man-basket. If used, radio equipment must be permissible or intrinsically safe for use in the area where the work is being performed.

All occupants must wear approved personnel fall protection equipment and must attach the lanyard to the anchor provided in the platform at all times.

Do not enter or exit the platform unless the machine is in the stowed position and the platform is at ground level.

Do not sit, stand or climb on the platform guardrails. Maintain a firm footing on the platform floor at all times.

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