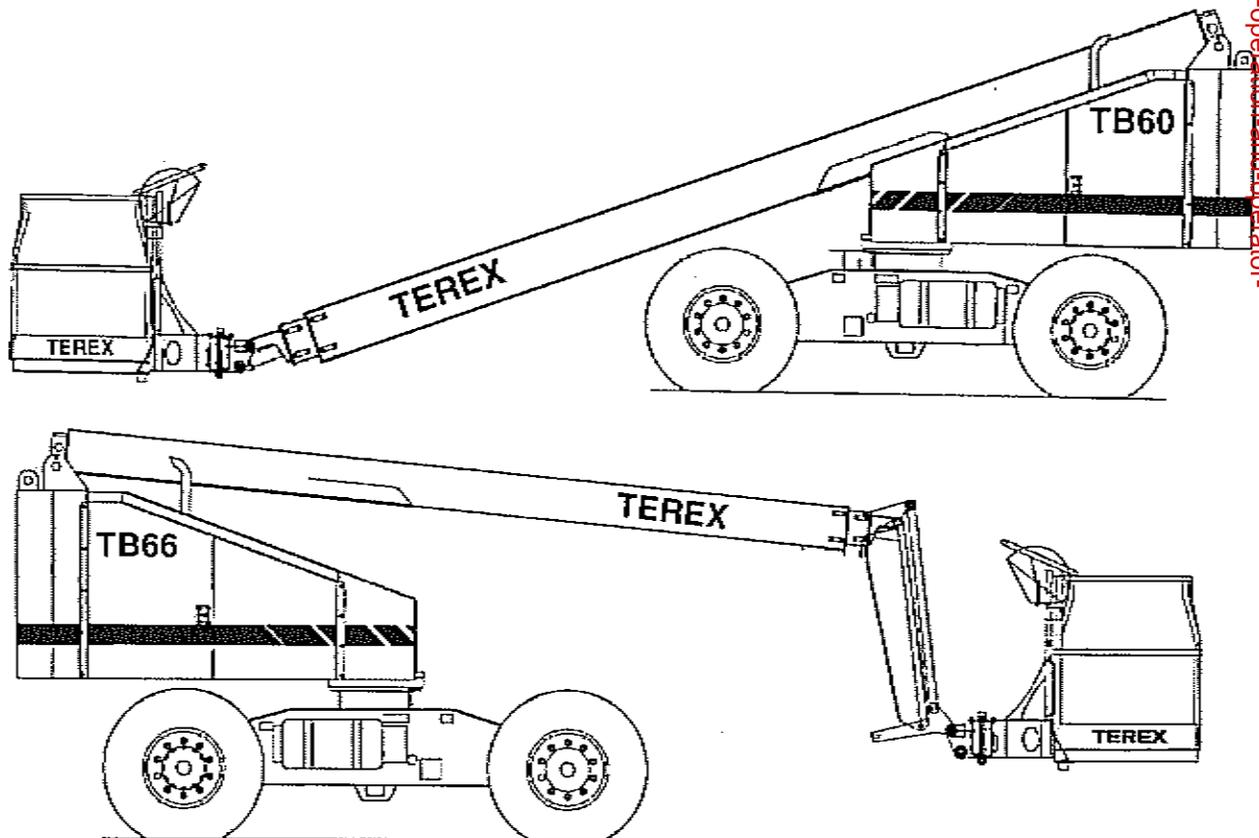




TEREX AERIALS

OPERATOR'S MANUAL

SELF-PROPELLED BOOM LIFT MODEL TB60/66



FOR PARTS OR SERVICE
CONTACT:

Renegar Equipment
5/10/10
843-760-1165

OPERATION AND OPERATOR MAINTENANCE MANUAL

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Terex Parts Sales Center
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Revised: May 2002
P/N 12261-252

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Product: 2002 Terex Aerials Model TB60/66 Self-Propelled Boom Lift Operation and Operator Maintenance Manual
Full Download: <https://www.terexaerials.com/downloads/2002-terex-aerials-model-tb6066-self-propelled-boom-lift-operation-and-operator-maintenance-manual/>

Product: 2002 Terex Aerials Model TB60/66 Self-Propelled Boom Lift Operation and Operator Maintenance Manual
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WARNING

THE OPERATOR MUST READ AND UNDERSTAND ALL OF THE INSTRUCTIONS IN THIS MANUAL BEFORE OPERATING THE AERIAL LIFT.

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TEREX AERIALS

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TEREX AERIALS

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Introduction

Owners, Users and Operators:

Terex Aerials appreciates your choice of our aerial lift for your application. Our number one priority is user safety, which is best achieved by our joint efforts. We feel that you can make a major contribution to safety if you as the equipment user and operator.

1. **Comply with OSHA, Federal, State and Local Regulations.**
2. **Read, Understand and follow the instructions in this and other manuals supplied with this machine.**
3. **Use good, safe work practices in a common sense way.**
4. **Have only trained operators - directed by informed and knowledgeable supervision - running the machine.**

If there is anything in this manual that is not clear or which you believe should be added, please send your comments to the Technical Publications Department, Terex Aerials, 106-12th Street, S.E., Waverly, Iowa 50677-9466 or call (319) 352-3920.

To help you recognize important safety information, we have identified warnings and instructions that directly impact on safety with following signals:



THESE SYMBOLS MEAN YOUR SAFETY IS INVOLVED! SEE NEXT PAGE FOR SPECIFIC INFORMATION. READ, UNDERSTAND AND FOLLOW ALL DANGER, WARNING AND CAUTION DECALS ON YOUR MACHINE.



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Introduction

DANGER

"DANGER" INDICATES AN IMMINENTLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, WILL RESULT IN DEATH OR SERIOUS INJURY. THIS SIGNAL WORD IS LIMITED TO THE MOST EXTREME SITUATIONS.

WARNING

"WARNING" INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.

CAUTION

"CAUTION" INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, MAY RESULT IN MINOR OR MODERATE INJURY. IT IS ALSO USED TO ALERT AGAINST UNSAFE PRACTICES, AND FOR PROPERTY-DAMAGE-ONLY SITUATIONS.

One final note: The best method to protect yourself and others from injury or death is to use common sense. If you are unsure of any operation, don't start until you are satisfied that it is safe to proceed and have discussed the situation with your supervisor.

Thank you!



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Safety

Section 2

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IN ADDITION TO THE SPECIFIC MAINTENANCE AND OPERATING INSTRUCTIONS IN THIS MANUAL, THE OPERATOR MUST READ AND UNDERSTAND ALL INSTRUCTIONS IN THE INTRODUCTION, AND IN THE FOLLOWING SAFETY RULES SECTION.

Training and Knowledge

1. **Do not operate** this aerial lift until you have been trained in its operation. This equipment may only be operated by trained personnel, who have demonstrated their ability to do so safely.
2. **Do not operate** this aerial lift until you have read and understood the Operator's Manual, EMI Safety Manual of Responsibilities supplied with the aerial lift.
3. Know OSHA, Federal, State and Local regulations applicable to your job.
4. **Read and understand** all decals and warnings on your aerial lift.

To Prevent Tip-over

1. **Do not exceed** the load capacity of the aerial lift. The load capacity includes the combined weight of personnel, tools, fixtures, accessories, etc. Loads should be evenly distributed over the platform floor.
2. **Do not exceed** the maximum number of personnel allowed on the platform. This information is shown on the platform decal, and can be found in the "Specifications" Section of this manual.
3. **Check the load capacity** of floors, ramps and bridges before driving or operating the aerial lift on them.
4. **Do not alter, disconnect or override** any interlocks or other safety devices.



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Safety



To Prevent Tip-over (Continued)

5. **Do not** operate this aerial lift in winds of excess of 25 M.P.H. This aerial lift is rated for use in winds not to exceed 25 M.P.H.
6. **Check clearances** overhead, around and below the aerial lift before: moving the boom up, down, in or out; tilting or rotating the platform; rotating the superstructure (turret), or traveling to prevent contact with obstacles.
7. **Do not** travel on slopes (grades) and ramps without first reading "Traveling on Grades and Ramps", later in this manual. This aerial lift is limited in the grades it can safely travel.
8. Before and during traveling:
 - A. **Look** in the direction of travel.
 - B. **Avoid** obstacles, bumps and potholes.
 - C. **Maintain** safe distance from all overhead objects.
 - D. **Use** a lookout if necessary!
9. **Do not** raise platform while positioned on trucks, trailers, railway cars, floating vessels, scaffolds, forklift trucks or similar equipment.
10. **Do not** operate this aerial lift with wheels "cribbed" or positioned on blocks.
11. **With the platform swung away from the stowed position**, use caution when selecting travel or steering direction. Travel and steer direction will be opposite switch or lever movement. Refer to the directional arrow decals on the undercarriage of the machine for travel orientation.
12. **Care should be taken** to keep electric cords, hoses, cables, ropes, etc. from becoming entangled in the aerial lift.



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To Prevent Tip-over (Continued)

13. Limit travel speed to existing conditions. **Do not use high speeds when maneuvering or traveling in reverse.** Reverse travel should only be used to maneuver the aerial lift at job location.
14. **Do not tow this aerial lift unless it is equipped with towing package!**
15. **Always** operate the controls in a smooth, steady manner.
16. **Do not** use the boom or platform as a crane to lift oversized or hanging loads.
17. **Always** travel up or down slopes or grades with platform pointed down slope and with boom in stowed position (fully lowered and "in" or retracted.)



Slip and Fall Protection

1. Each person in the aerial platform must wear fall protection at all times.
2. **Do not** attach fall protection devices to an adjacent structure while on the platforms.
3. **Do not** use planks, ladders, scaffolding or any other device on the platform to extend your reach.
4. **Always** keep both feet on the platform floor while traveling and working with the aerial lift. **Do not** lean over or stand on platform guard railings.
5. **Keep** platform, steps and shoes free from oil, mud, grease and other slippery substances. In cold weather, clear snow and ice from platform and steps.
6. **Make sure** the platform guard rails are not damaged and the entry gate is closed after entering the platform.
7. **Do not** attempt to climb down the boom assembly if the machine fails while the operator's platform is raised.
8. **Do not** operate this machine while under the influence of any drugs or alcohol.



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Safety

Slip and Fall Protection (Continued)

9. Do not work on the platform if you are bothered by heights, seizures or dizzy spells.
10. Actuation of the red "Emergency Stop" switch will apply brakes immediately, causing the platform to jerk as the machine comes to a sudden stop. Brace yourself.



General Information

1. Do not operate the aerial lift until it has been properly inspected, maintained and serviced. Any problems or malfunctions should be reported immediately to your supervisor, and operations stopped until corrected.
2. See the "Before Operation" section in this manual for decal listing, and replace those that are missing or illegible
3. Always wear approved headgear, eye protection, foot protection and fall-protection.
4. Secure all tools and other materials in the platform to prevent them from accidentally falling or being knocked from the platform.
5. When other vehicles or moving equipment are present, comply with all local ordinances, safety rules and warning rules for the workplace.
6. Do not allow ground personnel around or under the raised platform.
7. Do not allow ground personnel to tamper with, service or operate the machine using the ground controls while anyone is in the platform, except in an emergency.
8. Do not use the aerial lift for horseplay, stunt driving or recreational use. Report any misuse of equipment to the appropriate personnel.
9. Do not use the aerial lift outdoors in electrical storms.
10. Do not block the foot switch or any function control in the operating position.



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General Information (Continued)

11. **Do not attempt to open any hydraulic line or component without first relieving all system pressures and shutting off fluid flow from the tank.**
12. **Always attach the aerial lift to a winch when loading to or unloading from a transporting vehicle.**
13. **Whenever disengaging the drive torque hubs or before disconnecting from towing vehicle, ensure that the machine cannot roll.**
14. **Do not raise, lower, extend, retract, tilt or rotate the platform into stationary objects, as this will cause damage to mechanical and hydraulic components.**
15. **Do not use platform or boom functions to push or tow the aerial lift or another vehicle.**
16. **Avoid sudden braking or steering, go slowly and leave more maneuvering room during cold weather operation until the aerial lift has warmed up.**
17. **Immediately report any erratic noises, vibrations or malfunctions of the machine to appropriate personnel. Machine shall be removed from service until diagnosis and any necessary repairs have been completed.**
18. **When leaving the aerial lift, lower platform to "full down and in" position and remove key from ground control to prevent unauthorized use.**
19. **Refuel aerial lift in a well ventilated area free of any hazards which may cause fuel fumes to ignite.**
20. **Check fuel system for leaks or damaged fuel lines before operating the machine. If any damage is found, contact your supervisor immediately. Machine shall be removed from service until diagnosis and any necessary repairs have been completed.**



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OPERATOR'S MANUAL

Safety

General Information (Continued)

21. It is not possible for us to foresee every situation that could arise during operation of this aerial lift. Even if we do not state specifically that a particular action **should not be taken**, that does not mean that it is safe to do so. Personal injury or damage to equipment may result. Use common sense! If in doubt, contact Terex Customer Service.
22. Battery Care and Use:
 - A. **Do not** "jump start" any other vehicle with your aerial lift's batteries.
 - B. Batteries must be **charged in a well-ventilated area free of flames, sparks or other such hazards**. The vapors **can explode** if exposed to flames or sparks.

WARNING

BATTERY ACID CAN CAUSE SERIOUS BURNS. IF ACID COMES IN CONTACT WITH SKIN OR EYES, IMMEDIATELY FLUSH WITH WATER. SEEK MEDICAL ATTENTION.

- C. **Do not** use the aerial lift as a welding ground.
- D. **Disconnect battery leads** before performing any welding operations on the aerial lift.



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Operation in the Vicinity of Electrical Conductors

1. If the platform, supporting structure or any other conductive part of the aerial lift contacts a non-insulated electrical conductor, the result may be **SERIOUS INJURY OR DEATH** for persons on or near the aerial lift.
2. You, the owner of the electrical conductor and the electric utility must jointly determine the specific procedure to complete the job safely.
3. Always verify that the electric utility has been consulted before beginning work.
4. Except where electrical distribution and transmission lines have been de-energized and visible ground or effective barriers have been erected to prevent physical and arcing contact with the conductors, the following provisions shall be met:
 - A. Over lines, the operation of the aerial lift over electrical conductors is prohibited.
 - B. No part of the aerial lift, tools, equipment or personnel, during operation, shall come closer than the distance shown in the table below.

Voltage Range (Phase to Phase)	Minimum Safe Approach Distance	
	Feet	Meters
0 to 300	AVOID CONTACT	
Over 300 V TO 50kV	10	3.05
Over 50 kV TO 200kV	15	4.60
Over 200 kV TO 350 kV	20	6.10
Over 350 kV TO 500 kV	25	7.62
Over 500 kV TO 750 kV	35	10.67
Over 750 kV TO 1000 kV	45	13.72
One foot (30.5 cm) additional clearance is required for every additional 30,000 volts.		



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Safety



Operation in the Vicinity of Electrical Conductors (Continued)

5. You must allow for platform sway, rock or sag, and electrical line movement.
6. This aerial lift is not insulated, and does not provide protection from contact with or proximity to electrically charged conductor.

If Contact is Made

1. If operating from the platform, attempt to move the aerial lift from contact with the electrical conductor.
2. If the aerial lift cannot be removed from contact, the following precautions should be taken to avoid possible **ELECTROCUTION** to yourself and ground personnel:
 - A. **Do not** attempt to operate the aerial lift from the ground control.
 - B. If you can leave the aerial lift you must jump off the aerial lift and hop away, keeping your feet together as ground will be energized. Normal walking or running will result in possible **ELECTROCUTION, INJURY OR DEATH.**
 - C. Warn personnel to **stay well away** from the aerial lift as contact with it or the ground in the vicinity will result in possible **ELECTROCUTION, INJURY OR DEATH.**
 - D. While on the aerial lift, do not contact poles or other structures. Such contact will provide a path to ground, leading to possible **ELECTROCUTION, INJURY OR DEATH.**



CAUTION

You must read the complete manual before proceeding with the operation or unloading of the aerial lift.



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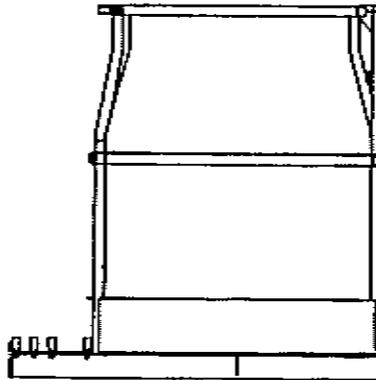
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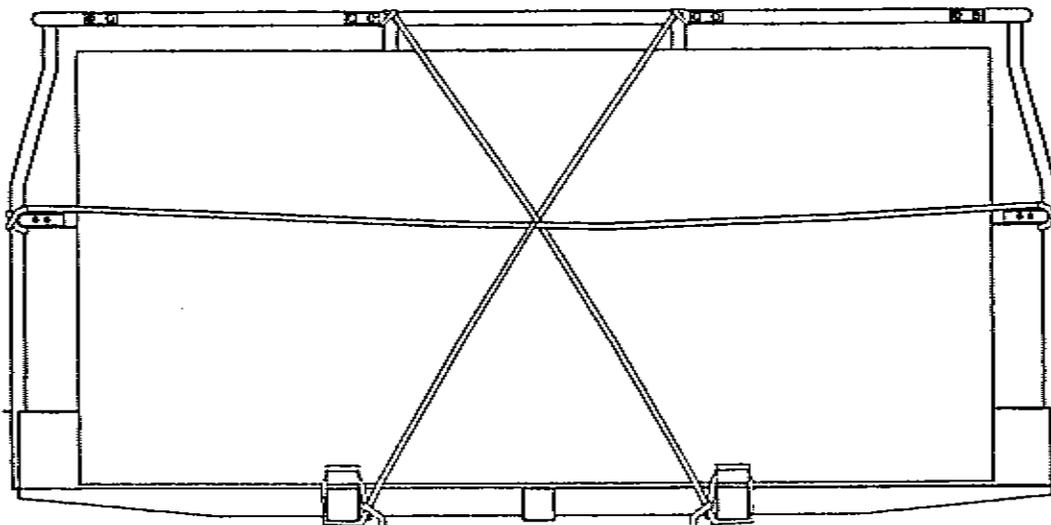


GLASS HANDLER OPTION

1. Use only factory approved glass handler option.



2. **DO NOT** switch baskets with other aerials not designed to handle glass.
3. This aerial option is rated for glass pieces with 32 square feet (4' x 8') or less of area.
4. This aerial option is rated for use in 25 mph winds. **DO NOT** use in winds or gusts exceeding 25 mph.
5. **DO NOT** step or stand on glass handler rack.
6. Enter and exit basket only through gate.
7. **DO NOT** exceed maximum glass load of 150 lbs.
8. **DO** distribute glass load evenly over rack.
9. Use ropes and cords to retain glass in rack.





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Specifications

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Range Diagram - TB66	3-7



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Machine Specifications

Model - TB60

*Working Height (Maximum)	66 ft. 0 in. (20.12 m)
Platform Height (Maximum)	60 ft. 0 in. (18.29 m)
Stowed Height.....	8 ft. 6 in. (2.59 m)
Stowed Length	26 ft. 1.25 in. (7.96 m)
Machine Width	7 ft. 11 in. (2.41 m)
Platform Dimensions	72 in. x 36 in. 44 in. - 6'
	(1.83 m x 0.91 m x 1.12 m)
	96 in. x 36 in. x 44 in. - 8'
	(2.4 m x 0.91 m x 1.12 m)
*Horizontal Reach.....	51 ft. 4.625 in. (15.66 m)
Boom Elevation	-20° to 75° above horizontal plane
Platform Capacity (Unrestricted)	
6 ft. Platform.....	650 lbs. (295 kg)
8 ft. Platform.....	600 lbs. (272 kg)
Rated Number of Occupants in Platform	2
Wheel Base.....	8 ft. 0 in. (2.44 m)
Wheel Track	6 ft. 10 in. (2.08 m)
Tailswing.....	42 in. (1.07 m)
Turret (Superstructure) Rotation	360°, continuous rotation
Turning Curb Radius	16 ft. 9 in. (5.1 m)
Travel Speed-Platform Stowed	0 to 3.0 mph (0 to 4.83 kph)



***CLEARANCE MUST BE ALLOWED FOR ALL BODY PARTS OF PERSONNEL IN PLATFORM AT THIS AND ALL OTHER WORK HEIGHTS.**



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Specifications

Machine Specifications

Model - TB60

Power Source:

Standard - Ford LRG 423, 62 hp (46.2 kw), Liquid Cooled, Gasoline (Dual Fuel Option)

Optional - Deutz F3L 1011L, 40.8 hp (30 kw), Air Cooled, Diesel

Optional - Cummins 3.9L, 76 hp (56.7 kw), Water Cooled, Diesel

Fuel Tank Capacity.....	40 gal. (151 liters)
Hydraulic System (Load sensing and pressure compensating)	
Maximum Operating Pressure.....	2,500 psi (172 bar) (176 kg-cm ²)
Reservoir Capacity.....	52 gal. (197 liters)
Tires (monofilled).....	15 x 19.5 13 P.R. (Loader Lug)
Ground Clearance.....	10 in. (0.25 m)
Shipping weight (Approx.).....	23,000 lbs. (10443 kg)
Wheel Loading	
Max. concentrated floor loading pressure.....	170 psi (11.95 kg-cm ²)
Wheel Load (maximum).....	7350 lbs. (3334 kg)
Wind Speed Rating.....	25 mph (40.23 km/h) (6° Beaufort)
*Gradeability (on hard surface)	
Two Wheel Drive.....	30% (16°)
Four Wheel Drive.....	50% (27°)

WARNING

***CLEARANCE MUST BE ALLOWED FOR ALL BODY PARTS OF PERSONNEL IN PLATFORM AT THIS AND ALL OTHER WORK HEIGHTS.**

*Gradeability data is theoretical and is limited by tire slip, stability, or engine oil pan design.

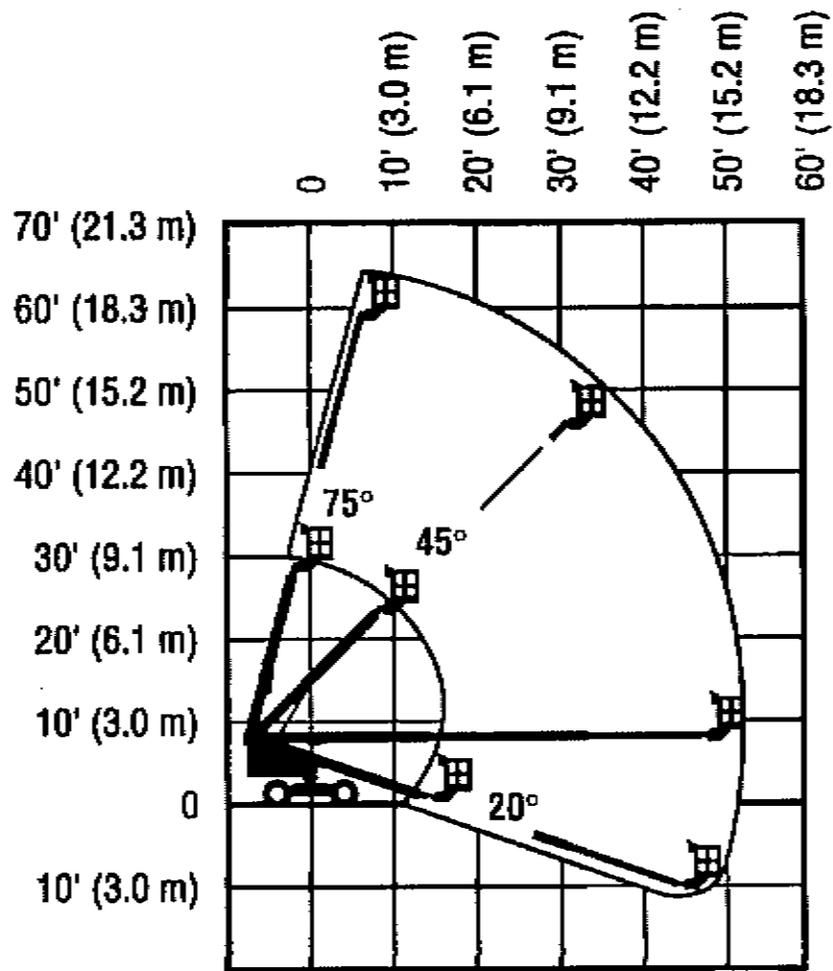


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Range Diagram, Model TB60 Boom Lift



TB60



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Machine Specifications	Model - TB66
*Working Height (Maximum)	72 ft. 0 in. (21.95 m)
Platform Height (Maximum)	66 ft. 0 in. (20.12 m)
Stowed Height	9 ft. 3 in. (2.82 m)
Stowed Length	28 ft. 11 in. (8.81 m)
Machine Width	7 ft. 11 in. (2.41 m)
Platform Dimensions.....	72 in. x 36 in. 44 in. - 6' (1.8m x 0.91 m x 1.12 m)
Horizontal Reach	57 ft. 4.625 in. (17.49 m)
Boom Elevation.....	-20° to 75° above horizontal plane -20° - 80° to 75° + 15° articulating
Platform Capacity (Unrestricted)	
6 ft. Platform.....	500 lbs. (227 kg)
Rated Number of Occupants in Platform	2
Wheel Base	8 ft. 0 in. (2.44 m)
Wheel Track	6 ft. 7 in. (2.01 m)
Tailswing	42 in. (1.07 m)
Turret (Superstructure) Rotation	360°, continuous rotation
Turning Curb Radii.....	16 ft. 9 in. (5.1 m)
Travel Speed-Platform Stowed.....	0 to 3 mph (0 to 4.83 kph)

WARNING

***CLEARANCE MUST BE ALLOWED FOR ALL BODY PARTS OF PERSONNEL IN PLATFORM AT THIS AND ALL OTHER WORK HEIGHTS.**



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Machine Specifications

Model - TB66

Power Source:

Standard - Ford LRG 423, 62 hp (46.2 Kw), Liquid Cooled, Gasoline (Dual Fuel Option)

Optional - Deutz F3L 1011L, 40.8 hp (30 Kw), Air Cooled, Diesel

Optional - Cummins 3.9L, 76 hp (56.7 kw), Water Cooled, Diesel

Fuel Tank Capacity.....	40 gal. (151 liters)
Hydraulic System (Load sensing and pressure compensating)	
Maximum Operating Pressure	2500 psi (172 bar) (176 kg-cm ²)
Reservoir Capacity	52 gal. (197 liters)
Tires (monofilled)	15 x 19.5 13 P.R. (Loader Lug)
Ground Clearance.....	10 in. (0.25 m)
Shipping weight (Approx.)	25,000 lbs. (11340 kg)
Wheel Loading	
Max. concentrated floor loading pressure	170 psi (11.95 kg-cm ²)
Wheel Load (maximum)	7,350 lbs. (3334 kg)
Wind Speed Rating	25 mph (40.23 km/h) (6° Beaufort)
Gradeability (on hard surface)	
Two Wheel Drive	25% (14°)
Four Wheel Drive	50% (27°)



***CLEARANCE MUST BE ALLOWED FOR ALL BODY PARTS OF PERSONNEL IN PLATFORM AT THIS AND ALL OTHER WORK HEIGHTS.**

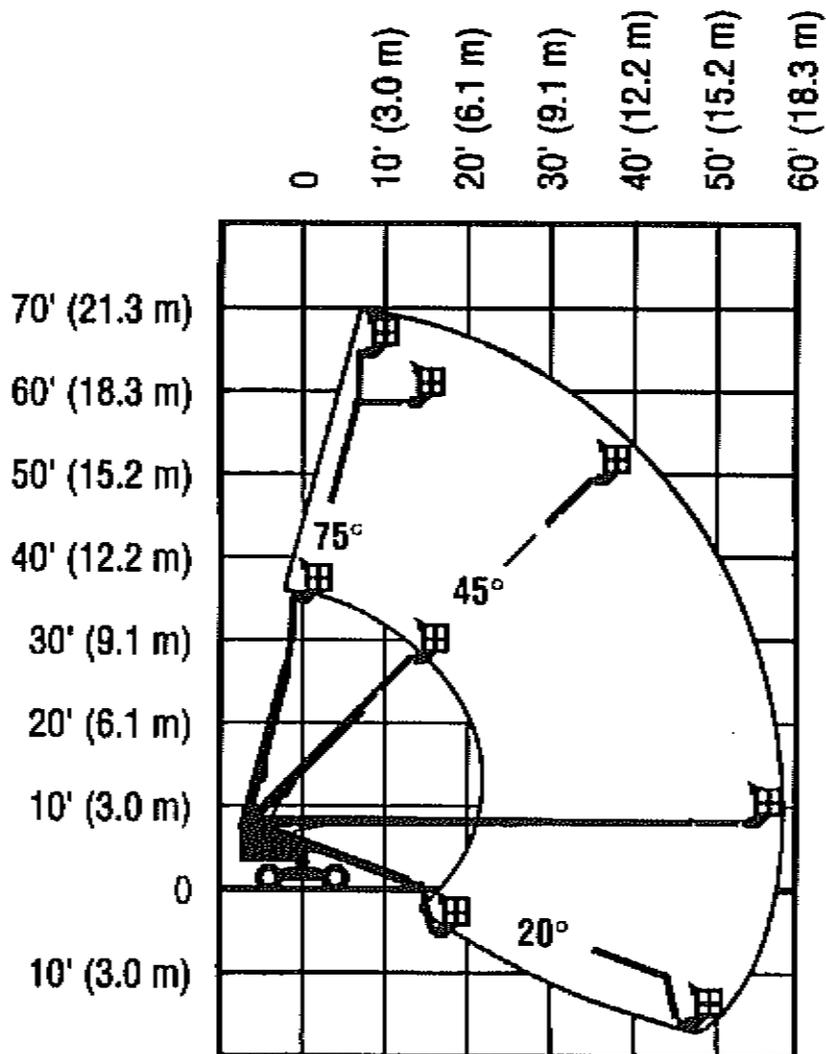


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Specifications

Range Diagram, Model TB66 Boom Lift



TB66



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Specifications



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Controls and Instruments

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OPERATOR'S MANUAL

Controls and Instruments

This section is intended to familiarize the operator with the controls and instruments provided for the operation of this machine.

It should be emphasized, however, that merely knowing the controls is inadequate preparation for operating boom lift aerial platforms.

Do not attempt to operate the machine until all sections of this manual have been read and understood

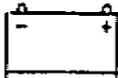
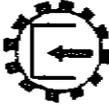


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Controls and Instruments

Universal Symbol Identification

 SAFETY	 ENGINE R.P.M.	 BATTERY
 EMERGENCY STOP	 HORN	 DRIVE
 GLOW PLUG	 EMERGENCY PUMP	 CIRCUIT-BREAKER
 CHOKE	 WORK LIGHTS	 GENERATOR
 IGNITION	 OVERHEAT	 GAS
 FAST or Hi	 LOW OIL PRESSURE	 PROPANE
 SLOW or LOW	 ENGINE START	 HOURMETER
 ELECTRICAL SYSTEM OFF	 ENGINE NOT RUNNING	 ON OFF

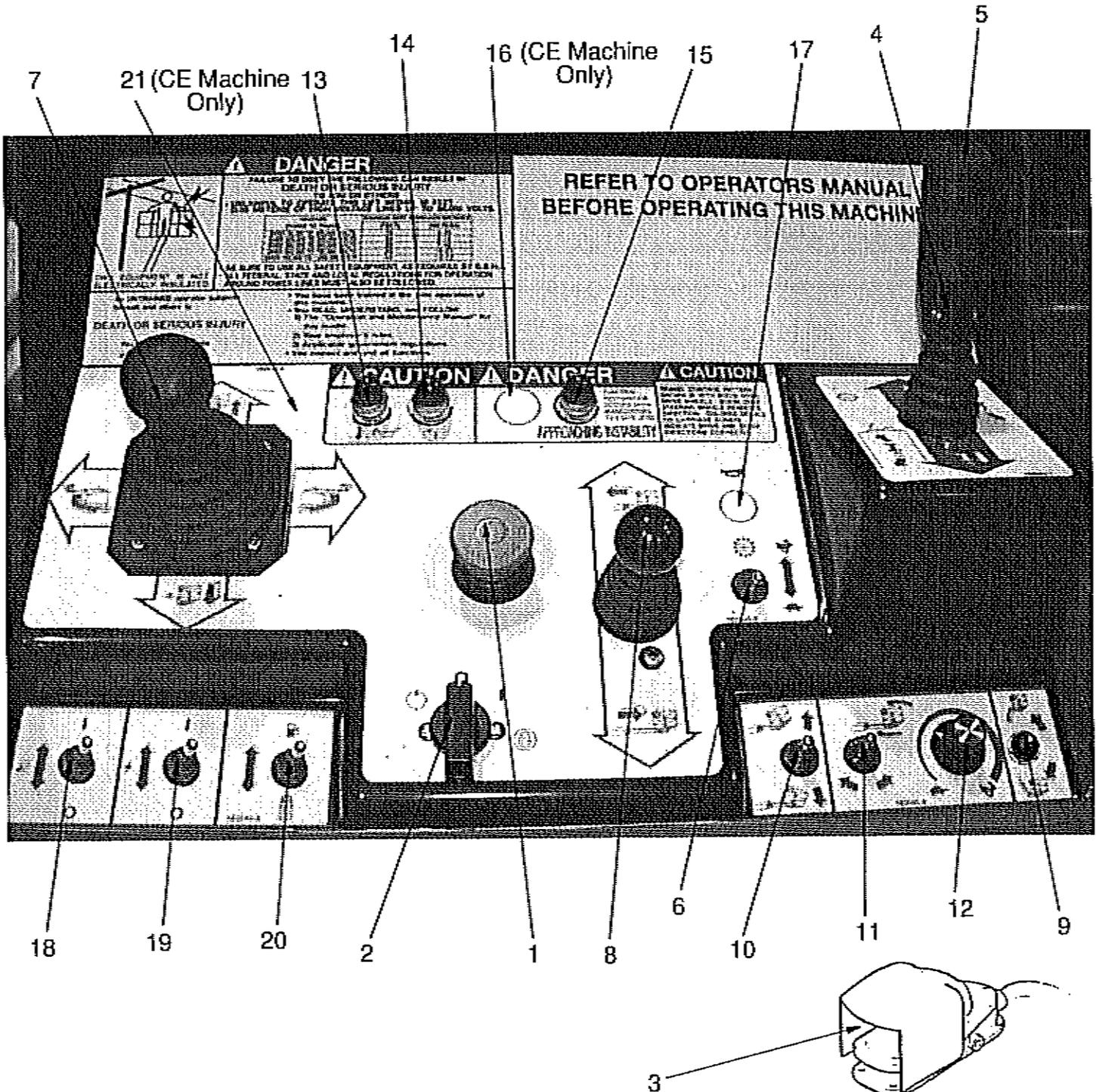


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Controls and Instruments

Aerial Control Station





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Controls and Instruments

Aerial Control Station Controls Identification

Key No.	Control Description
1.	Emergency Stop Switch
2.	Emergency Pump, Off/On and Start Switch
3.	Foot Operated Switch
4.	Drive Control Lever
5.	Steer Switch
6.	Drive Speed
7.	Main Boom Lift and Rotate Turret Lever
8.	Boom Retract / Extend Lever
9.	Jib Up/Down Toggle Switch
10.	Platform Tilt Toggle Switch
11.	Platform Rotate Toggle Switch
12.	Platform Rotate Speed Control
13.	Check Engine (Engine Distress) Light
14.	Emergency On Light
15.	Approaching Instability Light
16.	Cable Break Light (CE Machines Only)
17.	Horn Button
18.	Light Toggle Switch (Option)
19.	Generator Toggle Switch (Option)
20.	Fuel, Gas / Propane Toggle Switch
21.	Overload Warning (CE Machine Only)



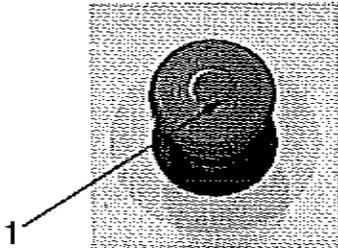
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Controls and Instruments

Aerial Control Station Controls Description

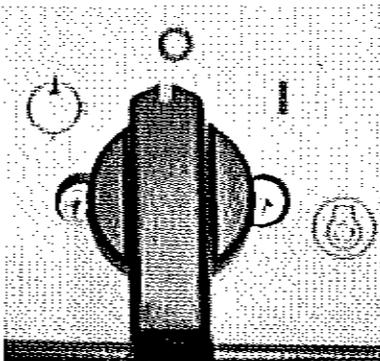
1. **Emergency Stop Switch.** Push "in" to stop all functions in an emergency.



Pull out or rotate clockwise (depending on style used) to release switch and restore all functions.

The Emergency Stop switches at both the Aerial and Ground Control stations must be released to allow any functions to operate.

2. **Emergency Pump Off/On and Start Switch.** Turn switch all the way to the right to "START" to start engine. Release key switch when engine starts, switch will return to "ON".



Turn key switch up to "OFF" to stop engine.

Turn and hold switch to the left to "EMERGENCY PUMP" to operate the emergency pump. With the key switch turned to "EMERGENCY PUMP", operate any pump function.

To prevent emergency pump battery from completely discharging and the emergency pump from overheating, release the switch to allow a 30 second rest period after every 30 seconds of operation.