



Operator's Manual

Serial Number Range

ZX-135/70

with Jib-Extend™

from ZX13515-2559

CE

with
Maintenance
Information

Original Instructions
Second Edition
Third Printing
Part No. 1258936

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Work Area Safety

⚠ Electrocuting Hazards

This machine is not electrically insulated and will not provide protection from contact with or proximity to electrical current.



Obey all local and governmental regulations regarding required clearance from electrical power lines. At a minimum, the required clearance contained in the chart below must be followed.

Line Voltage	Required Clearance
0 to 50KV	3.05 m
50 to 200KV	4.60 m
200 to 350KV	6.10 m
350 to 500KV	7.62 m
500 to 750KV	10.67 m
750 to 1000KV	13.72 m

Allow for platform movement, electrical line sway or sag, and beware of strong or gusty winds.



Keep away from the machine if it contacts energized power lines. Personnel on the ground or in the platform must not touch or operate the machine until energized power lines are shut off.

Do not operate the machine during lightning or storms.

Do not use the machine as a ground for welding.

⚠ Tip-over Hazards

Occupants, equipment and materials shall not exceed the maximum platform capacity.

Maximum platform capacity	272 kg
Maximum occupants	2

The weight of options and accessories, such as pipe cradles, panel cradles and welders, will reduce the rated platform capacity and must be subtracted from the platform capacity. See the decals with the options and accessories.

If using accessories, read, understand and obey the decals, instructions and manuals with the accessory.

Controls

12 Jib boom up/down buttons

Press the jib boom up button and the jib boom will raise. Press the jib boom down button and the jib boom will lower.

13 Platform level up/down buttons

Press the platform level up button and the level of the platform will raise. Press the platform level down button and the level of the platform will lower.

14 Primary boom extend/retract buttons

Press the primary boom extend button and the primary boom will extend. Press the primary boom retract button and the primary boom will retract.

15 20A circuit breaker for system circuit

16 Alarm

17 Bypass/recovery key switch

Bypass key position to be used only to level the platform if the ground control display shows platform out of level (P22) and platform level controls do not work. Refer to the operating instructions.

Recovery key position should be used only by trained and authorized personnel.

18 Platform rotate right button

Press the platform rotate right button and the platform will rotate right.

19 Platform rotate left button

Press the platform rotate left button and the platform will rotate left.

20 Jib boom extend/retract buttons

Press the jib boom extend button and the jib boom will extend. Press the jib boom retract button and the jib boom will retract.

21 High speed function enable button

Press the high speed function enable button to enable the functions on the ground control panel to operate at high speed.

22 Low speed function enable button

Press the low speed function enable button to enable the functions on the ground control panel to operate at low speed.

23 Emergency power button

Use emergency power if the primary power source (engine) fails. Simultaneously hold the emergency power button and activate the desired function.

Inspections

- 10 Push and hold a function enable/speed select button and push the turntable rotate left button.
 - ⊙ Result: The turntable should rotate 15° and then stop. The turntable should not rotate more than 15° unless the axles are extended.
- 11 Push and hold a function enable/speed select button and push the turntable rotate right button.
 - ⊙ Result: The turntable should return to center, rotate 15° to the right and then stop. The turntable should not rotate more than 15° unless the axles are extended.
- 12 Turn the key switch to platform control. At the platform controls, move the drive control handle in the forward direction and move the extend axle toggle switch.
 - ⊙ Result: The machine should drive and the axles should extend. The indicator light will flash while the axles are moving and stay on when the axles are fully extended.
- 13 Return to the ground controls. Turn the key switch to ground control.
- 14 Push and hold a function enable/speed select button and push the primary boom up button and then the primary boom down button.
 - ⊙ Result: The primary boom should raise and lower normally.
- 15 Push and hold a function enable/speed select button and push the secondary boom raise/extend button and then the secondary boom lower/retract button.
 - ⊙ Result: The secondary boom should raise and extend and retract and lower normally.
- 16 Push and hold a function enable/speed select button and push the primary boom extend button and then the primary boom retract button.
 - ⊙ Result: The primary boom should extend and retract normally.
- 17 Push and hold a function enable/speed select button and push the turntable rotate left button and then the turntable rotate right button.
 - ⊙ Result: The turntable should rotate normally.

Inspections



Do Not Operate Unless:

- ☑ You learn and practice the principles of safe machine operation contained in this operator's manual.
 - 1 Avoid hazardous situations.
 - 2 Always perform a pre-operation inspection.
 - 3 Always perform function tests prior to use.
 - 4 **Inspect the workplace.**
Know and understand the workplace inspection before going on to the next section.
 - 5 Only use the machine as it was intended.

Workplace Inspection Fundamentals

The workplace inspection helps the operator determine if the workplace is suitable for safe machine operation. It should be performed by the operator prior to moving the machine to the workplace.

It is the operator's responsibility to read and remember the workplace hazards, then watch for and avoid them while moving, setting up and operating the machine.

Workplace Inspection Checklist

Be aware of and avoid the following hazardous situations:

- drop-offs or holes
- bumps, floor obstructions or debris
- sloped surfaces
- unstable or slippery surfaces
- overhead obstructions and high voltage conductors
- hazardous locations
- inadequate surface support to withstand all load forces imposed by the machine
- wind and weather conditions
- the presence of unauthorized personnel
- other possible unsafe conditions

Operating Instructions

Aircraft Protection Package (if equipped)



If the platform bumper comes into contact with an object, the machine will shut down and no functions will operate.

- 1 Start the engine.
- 2 Press down the foot switch.
- 3 Move and hold the aircraft protection override switch.
- 4 Move the appropriate function control handle or toggle switch to move the machine away from aircraft components.

After Each Use

- 1 Select a safe parking location—firm level surface, clear of obstruction and traffic.
- 2 Retract and lower the boom to the stowed position.
- 3 Rotate the turntable so that the boom is between the non-steer wheels.
- 4 Turn the key switch to the off position and remove the key to secure from unauthorized use.

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