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A38E



OPERATOR'S MANUAL

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Limited Warranty

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General Specifications

Aerial Platform

Working height	43' 7" (13.2 m)
Maximum platform height	37' 7" (11.4 m)
Up and over height	17' 9" (5.4 m)
Maximum horizontal reach	18' 4" (5.5 m)
Turntable rotation	362° non-continuous
Turning radius	
Inside	1' 4" (0.4 m)
Outside	7' 10" (2.4 m)
Wheelbase	4' 2" (1.27 m)
Ground clearance	5" (13 cm)
Weight, EVW	
Approximate	8,822 lbs (3,850 kg)
Width	4' 11" (1.5 m)
Stowed length	13' 3" (4.04 m)
Stowed height	6' 7" (2 m)

Platform

Dimensions, inside	1' 11" x 3' 4" (58.4 cm x 102 cm)
Toeboard height	6" (15.2 cm)
Rated work load	475 lb (215 kg)
Maximum number of occupants	2 people

Drive Speed

High, booms stowed	2.5 mph (4 km/h)
Low, booms raised/extended	0.45 mph (0.7 km/h)

Drive System

Standard	Two wheel drive
Gradeability	36%

Tires

Solid non-marking	22" x 9" x 16"

Electrical System

Voltage	48 V DC
Source	Eight - 6 V 220 amp batteries
Fluid recommended	distilled water
Charger	25 amp

Hydraulic System

Maximum pressure	2,540 psi (17,513 kPa)
Reservoir capacity	6.5 US gal (24.6 l)
Maximum operating temperature	200°F (93°C)
Hydraulic fluid recommended	
Above 10°F (-12°C)	Mobil DTE-13M (ISO VG32)
Below 10°F (-12°C)	Mobil DTE-11M (ISO VG15)

Ambient Air Temperature Operating Range

Fahrenheit	0°F to 110°F
Celsius	-18°C to 43°C

Maximum Wind Speed

Gust or steady	28 mph (12.5 m/s)

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The aerial platform is equipped with an hour meter and a battery charge indicator to monitor the condition of the machine before and during operation.

Display Screen

An LED display screen is located on the upper control panel (refer to Figure 5.1).

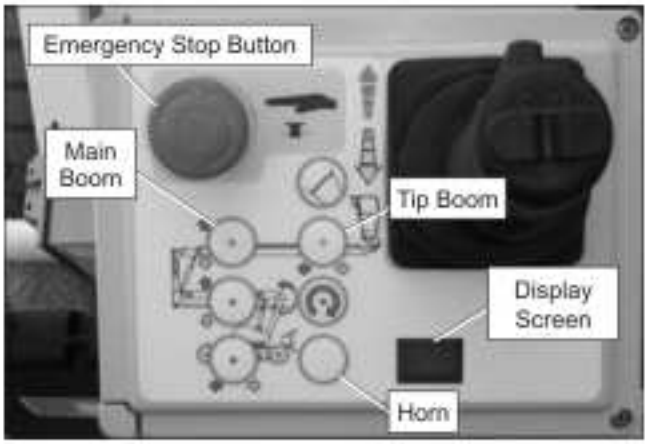


Figure 5.1 – Upper Controls

The display screen shows:

- general operators information.
- fault codes used to locate and eliminate situations where machine operation may be interrupted.

Note
Refer to Chapter 12 for a list of fault codes.

Hour Meter

The hour meter is part of the digital display on the upper control panel (refer to Figure 5.1). It measures the accumulated aerial platform operating time.

To view the hour meter reading:

1. From the lower controls, twist the emergency stop button clockwise to the on position and turn the start switch on.
2. From the upper controls, push the emergency stop button inward.
3. Press and hold the horn and main boom buttons while twisting the emergency stop button to restore power. The display should now have "hr" shown.
4. Press the right side of the steer switch to scroll through the hour meter reading, two digits at a time. For example, if pressing the switch slowly three times displays "10" followed by "40" and then "hr" after the third time, the accumulated aerial platform operating time is 1,040 hours.
5. Push the emergency stop button inward.

Battery Charge Indicator

The battery charge indicator is on the battery charger on the right side of the chassis (refer to Figure 5.2). When the batteries are charging, the battery charge indicator displays the level of charge in the batteries.



Figure 5.2 – Right Side of Chassis

Hydraulic Fluid Level Dipstick

The dipstick on the reservoir fill cap indicates the proper level of hydraulic fluid in the reservoir. The reservoir is inside the front of the chassis (refer to Figure 5.3).



Figure 5.3 – Inside Front of Chassis

Remove the chassis cover and check the fluid level with the aerial platform in the stowed position. Otherwise, the cylinders act as a large reservoir for hydraulic fluid making the level appear too low. The fluid should be visible on the dipstick.

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The following controls are located on the upper control panel:

- Emergency stop button
- Joystick
- Steer switch
- Drive/steer select
- Riser select
- Main boom select
- Tip boom select
- Turntable rotation select
- Platform level select
- Horn button
- Platform rotator

Emergency Stop Button
The emergency stop (refer to Figure 7.4) is a two-position red push button.

- Push the emergency stop button inward to disconnect power to the upper controls.
- Twist the emergency stop button clockwise to restore power.
- Push the emergency stop button inward when the upper controls are not in use to protect against unintentional operation.

Both the lower and upper control emergency stop buttons must be on to operate the machine.

Joystick
The joystick (refer to Figure 7.4) is used to either drive the aerial platform or to operate the boom and turntable after selecting the appropriate function.

- Press the drive/steer button to use the joystick to drive the aerial platform.
- Press the boom or turntable buttons to use the joystick to operate those functions.

Movement of the joystick in a given direction produces a corresponding movement of the aerial platform as indicated on the upper control placard. The steering and drive functions may be operated separately or simultaneously.

Steer Switch
The steer switch (refer to Figure 7.4) is a momentary contact, rocker switch on top of the drive joystick. This switch controls the two front wheels to steer the aerial platform. The

- To steer to the right, engage the interlock switch on the joystick and hold down the right side of the steer switch.
- To steer to the left, engage the interlock switch on the joystick and hold down the left side of the steer switch.

Note
The steering wheels are not self-centering. Set the steering wheels straight ahead after completing a turn.

Drive/Steer Button
The drive/steer button (refer to Figure 7.4) is used with the joystick to drive and steer the aerial platform.

- To drive forward press the drive/steer button and then push the joystick forward, the direction of the red arrow.
- To drive in reverse press the platform raise/lower button and then pull the joystick backward, the direction of the yellow arrow.

Note
The platform will not raise or lower while driving.

Riser Button
The riser button (refer to Figure 7.4) is used with the joystick to raise and lower the riser boom.

- To raise the riser boom, press the riser button and then push the joystick forward, the direction of the red arrow.
- To lower the riser boom, press the riser button and then pull the joystick backward, the direction of the yellow arrow.

Main Boom Button
The main boom button (refer to Figure 7.4) is used with the joystick to raise and lower the main boom.

- To raise the main boom, press the main boom button and then push the joystick forward, the direction of the red arrow.
- To lower the main boom, press the main boom button and then pull the joystick backward, the direction of the yellow arrow.

Tip Boom Button
The tip boom button (refer to Figure 7.4) is used with the joystick to extend and retract the tip boom.

- To extend the tip boom, press the tip boom button and then push the joystick forward, the direction of the red arrow.
- To retract the tip boom, press the tip boom button and then pull the joystick backward, the direction of the yellow arrow.

Turntable Rotation Button
The turntable rotation button (refer to Figure 7.4) is used with the joystick to rotate the turntable.

- To rotate the turntable clockwise press the turntable rotation button and then push the joystick forward, the direction of the red arrow.

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