

STAR 6 - STAR 13

Operator's manual

STAR 6 - STAR 13

4001197800

E 05.22

USA / GB



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A - Foreword

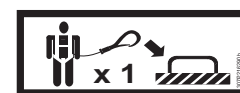
To enter or exit from the platform :

- The machine must be completely stowed (Access configuration).
- Face the machine to access the opening to the platform.
- Keep 3 points of contact (both hands and a foot) on the steps and the guardrail.
- Keep fingers away from moving parts near entry gate.



When in the platform :

- Where personal fall protection equipment (FPE) is required by the employer, a competent authority or local regulations, we recommend using a full harness with a safety line.
- Personal fall protection equipment must only be fastened to approved fall protection anchoring points on the platform provided for this purpose.
- Refer to this decal located on the platform.
- Safety lines must never be attached to an object or structure outside of the work platform.
- Hold on securely to the guardrails.
- Always keep your feet firmly on the floor of the platform.
- Do not sit, stand, or climb on the platform guard rails.
- Do not lean on the gate or sliding bar.
- Do not lean over the guard rails or climb over them. Only work in the platform area within the guard rails.
- Do not exit the platform until it is in the completely stowed position.
- Do not use the guardrail as a means of access to climb in or out of the platform.



A- Foreword



UKCA Declarations of Conformity only apply to machines that are certified for England, Wales and Scotland.

Declaration of conformity - Electric platforms

Haulotte

UKCA DECLARATION OF CONFORMITY

Manufacturer and the person authorised to compile the technical file:

HAULOTTE GROUP

France

Nathalie Reynolds
General Manager UK and Ireland
Haulotte UK Ltd

Unit 1 Gravelly Way, Four Ashes
Wolverhampton, West Midlands WV10 7GW
ENGLAND

Mobile Elevating Work Platform

In compliance with the Model Type	<i>Model Type of the concerned machine</i>
Commercial name	<i>Commercial name of the concerned machine</i>
Serial number	<i>Serial number of the machine</i>
Approved body	
Certificate number	
Rated Capacity	<i>Rated capacity of the concerned machine</i>

We hereby declare that this machine conforms with all the relevant provisions of the Regulations listed below

Supply of Machinery (safety)	2008
This machine also fulfils the principles of the designed standards	BS EN280 : 2013 + A1 : 2015
Electromagnetic compatibility	2016
Radio equipment (if machinery equipped)	2017

This declaration relates exclusively to the machinery in the state in which it was placed on the market
Any modification to the above described machine violates the validity of this declaration

Name and signature division director

Date and place

haulotte.com

A
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I

B- Familiarization

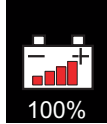


Marking	Description	Marking	Description
C1	Chassis	C64	Tilt sensor
C6	Platform	C75	Extension deck
C7	Platform control box	C76	Guardrail
C20	Tie-down (and/or forklift loading)	C77	Platform access step
C27	Ground control box + Universal plug	C82	Unlock pedal extension deck
C33	Counterweight	C90	Battery bay (block)
C34	Rear drive wheels	C136	Front steer wheels
C35	Document holder	C142	Lanyard attachment points
C47	Battery isolation switch	C156	Platform entry
C50	Battery charger socket	C170	Brake release switch
C54	Telescopic mast	C173	Emergency lowering valve
C58	Pothole protection		

Universal plug



B- Familiarization

Controls and indicators

Marking	Name	Description	Function
27	HL800	Tilt indicator	Machine on excessive slope
30	HL802	Overload indicator	Overload indicator
43	SA907	Horn button	Move upwards and hold to activate horn
46	SB802	E-stop button	Pulled out : Platform control box power supply energized Pushed in : De-energizes control system
85	HL903	Fault indicator	Faulty or tilting machine
108	SM901	Movement joystick	Move forward : Forward drive or mast lifting Move backwards : Reverse drive or mast descent
		Front axle steering selector	Press right side of thumb button : Right-hand steering Press left side of thumb button : Left-hand steering
110	HL420	Mast lifting / descent selection indicator	On : Mast lifting / descent selection activated Off : Mast extension / retraction movement is not selected
111	HL100	Driving selection indicator	On : Driving function activated Off : Driving movement is not selected
112	SA908	2-position selector	Move to the left : Mast lifting / descent Move to the right : Drive and steer movements
123	SA905	Enable Switch	Press in : Associated command is validated Release : Associated command movement is halted
135	HL904	Battery charging indicator	 Battery charged
			 Flashing : Batteries have 40 % charge left
			 Constantly on : Batteries have only 20 % charge left



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B - Familiarization

EAC standard

Marking	Color	Description	Quantity	STAR 6
1	Red	Height of the floor and load	2	4000425130
1	Red	Height of the floor and load	2	For STAR 6 with extension only : 4000596950
2	Blue	Maximum Pressure per Tire - Floor Loading	4	4000814950
3	Other	Commercial name - Bright machine	2	4000425510
3	Other	Commercial name - Dark machine	2	4000425520
4	Other	Decal HAULOTTE® - Bright machine	1	307P217080
4	Other	Decal HAULOTTE® - Dark machine	1	307P224740
4	Other	Decal HAULOTTE® - Red machine	1	307P220360
5	Other	Decal HAULOTTE® - Bright machine	2	4000425360
5	Other	Decal HAULOTTE® - Dark machine	2	4000425370
5	Other	Decal HAULOTTE® - Red machine	2	4000425380
5	Other	Decal HAULOTTE® - Bright machine	1	For STAR 6 with extension only : 4000425360
5	Other	Decal HAULOTTE® - Dark machine	1	For STAR 6 with extension only : 4000425370
5	Other	Decal HAULOTTE® - Red machine	1	For STAR 6 with extension only : 4000425380
6	Other	Identification plate	1	For Russia : 4000388680 For Ukraine : 4000054150
11	Other	Lanyard attachment points	2	307P226710
11	Other	Lanyard attachment points	4	For STAR 6 with extension only : 307P226710
12	Other	Material risk - Yellow and black adhesive tape	2	For STAR 6 with extension only : 4000478920
12	Other	Material risk - Yellow and black adhesive tape	2	For STAR 6 with extension only : 4000424630
16	Other	Max and min oil level	1	307P221060
18	Orange	Hand crushing hazard - Risk of crushed hands	1	307P227660
19	Red	Operation instructions	1	For Russia : 307P227190 For Ukraine : 307P227840
20	Blue	Operation instructions	1	For Russia : 4000359920 For Ukraine : 4000359910
22	Orange	Wound foot - Do not place foot	1	307P227010
23	Red	Risk of crushing - Driving direction	1	For Russia : 4000010890 For Ukraine : 4000011390
24	Red	Danger of electrocution	2	307P226960
25	Red	Risk of crushing - Closing drop rail	1	307P226950
26	Red	Danger of electrocution - Ground for welding	1	307P226970
28	Red	Do not interchange	1	4000504670
31	Blue	Brake release	1	4000361570

C - Pre-operation inspection

4 - Safety functional checks

To protect the user and the machine, safety systems prevent the movement of the machine beyond its operating limits. These safety systems when activated immobilize the machine and prevent further movement.

The operator must be familiar with this technology and understand that is not a malfunction but an indication that the machine has reached an operation limit.

Aerial Work platforms are equipped with two control boxes which allow operators to safely use the machine. A mast lowering device is provided on the chassis to assist in emergency situations. Each control box is equipped with an E-Stop button, which cuts all movements when pushed in.

The following checks describe the operation of the machine and the specific controls required.

For the location and description of these controls :  refer to section B 3.4 and D 2 - Ground panel and B 3.5 and D 3 - Platform panel.

4.1 - E-STOP BUTTON CHECK

Ground control box E-stop button

Step	Action
1	Pull the E-stop buttons (15, 46).
2	Turn the control box activation selector key (92) downwards to activate the ground control box.
3	The Activ'Screen turns on.
4	Push the E-stop button (15). The screen turns off.

Platform control box E-stop button

Step	Action
1	Pull the E-stop buttons (15, 46).
2	Turn the control box activation selector key (92) upwards to activate the platform control box.
3	Push the E-stop button (46). The system is de-energized and no function is operable.

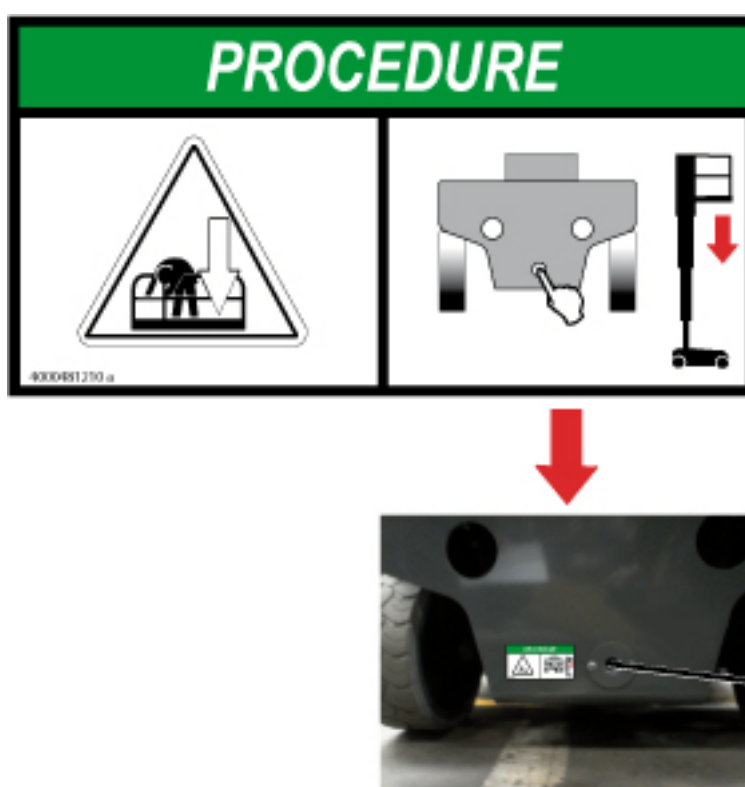
D - Operation instructions

4 - Rescue and emergency procedures

In case of power loss or if an operating problem prevents the platform occupant from descending, a competent operator can perform the emergency procedures from the ground level.

4.1 - MAST MANUAL LOWERING PROCEDURE

- Press and hold the push button (1) on front of the machine, to lower the mast.
- Release it to halt lowering.



4.2 - EXIT FROM PLATFORM WHEN ELEVATED

In an emergency, if the operator has to exit the platform while it is elevated, the transfer of the platform occupant(s) must respect the following recommendations :

- Exit onto a sturdy and safe structure.
- The occupant(s) must ensure that 2 lanyards are used for security/safety. One must be attached to the designated anchorage point on platform the occupant(s) is in and the other attached to the structure intended to get on.
- Occupant(s) must exit the current platform through the normal access.

N.B.-:-DO NOT DETACH THE LANYARD FROM THE CURRENT PLATFORM IF THE TRANSFER TO THE NEW STRUCTURE POSES ANY DANGER OR UNTIL THE TRANSFER IS SAFELY COMPLETED. DO NOT ATTEMPT TO CLIMB DOWN THE MAST. INSTEAD WAIT FOR ASSISTANCE FOR A SAFE EXIT

D - Operation instructions

5.8.2.4 - Procedure for the use of slings - without spreader

The machine must be completely stowed (Extension retracted). Designated lifting points are marked/labeled with the following symbol .

Attach 4 shackles 3 T with the straps 3 m (9 ft 10 in) 3 T to the four lifting points on the chassis.



Pay particular attention to avoid slings over sharp edged surfaces as they may be severed/damaged.



Properly adjust rigging to keep the machine level and to minimize the risk of damage to the machine.



- Lifting procedure must be handled very carefully.
- All movements of the machine must be performed slowly and deliberately to minimize swaying of the machine being lifted.
- Always keep machine as close as possible to the ground level.

D - Operation instructions

7.2.2 - Desulfation charge

Normal battery use leads to sulfation of the lead plates during discharge (Formation of lead sulfate). Recharging the battery dissolves the lead sulfate. The plates are desulfated.

Moreover, sulfation also appears if the battery self-discharges during storage in a low state-of-charge (< 70%).

As the battery ages, the lead sulfate may become harder and harder and increasingly difficult to eliminate by normal charging. This leads to a loss of autonomy. The desulfation charge is a way of regenerating the battery.



To improve the efficiency of the desulfation charge, you are advised to launch it for a battery discharged to a state-of-charge less than 30%.

Procedure :

- Go to the machine set-up menu → 3.3 Machine config → 3.3.1 Option setting → Desulfation charge.

Desulfation charge



- The option is active and will be implemented during the next mains charge.
- Charging time is increased up to 72 h.
- For high efficiency in this charging mode, the batteries must be below 30%.

F - Maintenance

1 - General

As an owner and/or operator of Haulotte equipment, your Safety is of utmost importance to HAULOTTE®, which is why HAULOTTE® places such a high priority on product safety.

INSPECTIONS are not only required by HAULOTTE®, but may also be required by industry standards and/or local regulations.

To ensure your equipment continues to achieve the level of performance set in the factory, it is important to maintain it regularly. We remind you that it is strictly forbidden to make any modifications. Regular and timely inspections will reduce equipment down time as well as prevent possible injury.

N.B.-:DO NOT OPERATE UNLESS YOU ARE FAMILIAR AND TRAINED IN THE PRINCIPLES OF SAFE MACHINE OPERATION.

Overview :

- Walk-around inspections take only a few minutes at the beginning and end of each shift – one of the best ways to prevent mechanical problems and safety hazards.

What to Do :

- Use your senses: sight, smell, hearing and touch.

Frequency :

- Check your machine periodically during your entire workday.
- Make sure to do your inspection the same way every time.
- Complete one of these inspections at the start and end of each shift.


N.B.-:IF DAMAGE OR UNAUTHORIZED MODIFICATIONS ARE DISCOVERED, THE MACHINE MUST BE REMOVED FROM SERVICE UNTIL REPAIRS ARE MADE BY A QUALIFIED SERVICE TECHNICIAN.

It is the owner's responsibility to ensure the required maintenance as recommended by Haulotte is completed prior to the operation of the machine.

If regular maintenance is not carried out, this may :

- Void the warranty.
- Cause machine malfunction.
- Reduce machine reliability and shorten its service life.
- Jeopardize operator safety.

HAULOTTE Services® technicians are specially trained to carry out extensive repairs, interventions or adjustments on the safety systems or elements of HAULOTTE® machines. They carry genuine HAULOTTE spare parts and tools as required, and also provide fully documented reports on all work completed.

The inspection and maintenance table, identifies the role and the responsibilities of each party in periodical machine maintenance.  Section C 3 - Inspection and Functional test.

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