

**SIGMA 16 - SIGMA 46 - SIGMA 16 PRO - SIGMA 46 PRO —
MONOCHROME LCD DISPLAY**

Operator's manual

**SIGMA 16 - SIGMA 46 -
SIGMA 16 PRO - SIGMA 46 PRO
— MONOCHROME LCD DISPLAY**

4001228140

E 08.22

USA / GB



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A- Foreword

2.1.2 - Falling Hazards

N.B.:-THE GUARDRAIL IS THE MAIN PROTECTION SYSTEM AGAINST FALLS FROM THE MOBILE LIFTING PLATFORM (PEMP).

Before commencing operation :

- Ensure that guard rails are correctly installed and secured.
- Ensure that gate or sliding bar is in its securely locked position.
- If using a machine that has a swing gate, check that the entry gate closes by itself and gate latches and locks.
- Remove oil or grease from the steps, floor, handrail and the guardrails.
- Clean the floor of the platform (no debris).



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.



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A - Foreword

5.2 - PRODUCT SPECIFICATIONS

HAULOTTE® cannot be held liable for any changes to the technical characteristics/specifications contained in this manual. HAULOTTE® has a continuous improvement policy in place for its product range. Given this policy, the Company reserves the right to modify products technical characteristics / specifications without notice.

5.3 - CHANGE OF OWNERSHIP NOTIFICATION

It is important and necessary to keep HAULOTTE Services® updated with current ownership of the machine. This way, HAULOTTE® will be able to provide the necessary support for the product. If you have sold or transferred this machine(s); it is your responsibility to notify HAULOTTE Services®. It is not required to include Lessees/Renters of Leased/Rented machines on this form.

Connect to our website : www.haulotte.com

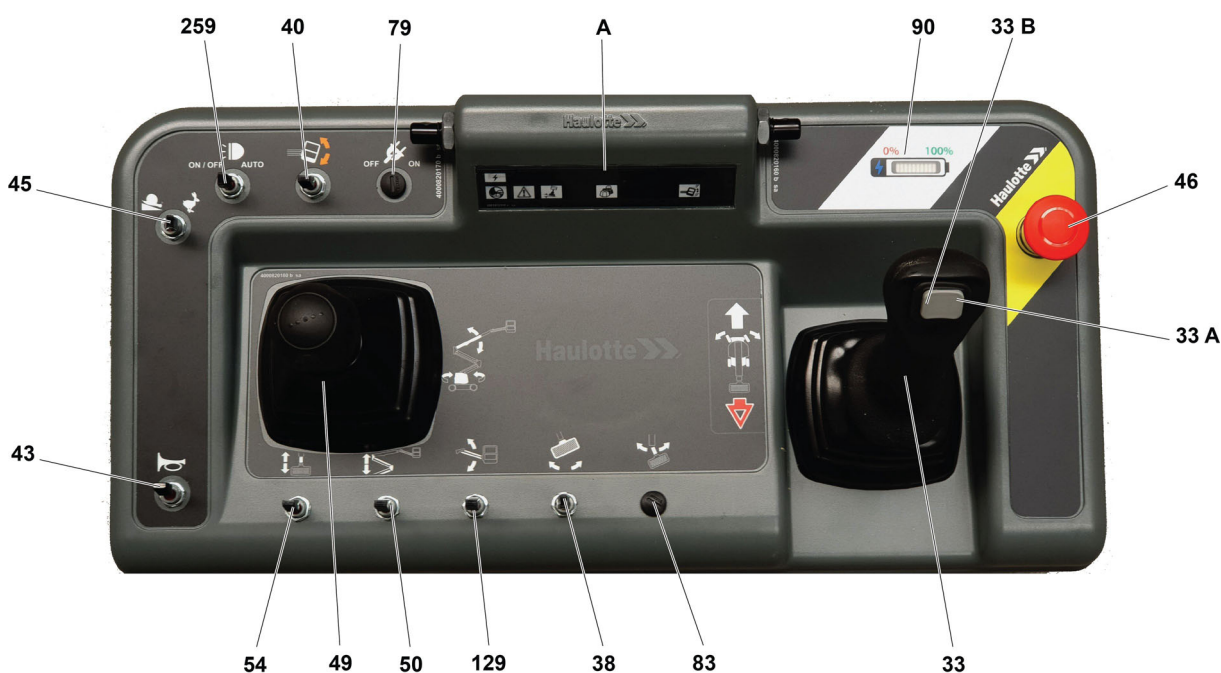


B- Familiarization



3.3 - PLATFORM CONTROL BOX

3.3.1 - Layout

General view



Controls and indicators

Marking	Name	Description	Function
33	SM902	Drive joystick	Move forward : Forward drive Move backwards : Reverse drive
33A		Steering button (Steering thumb / rocker switch)	Press right side of button : Steer right
33B			Press left side of button : Steer left
38	SA751	Platform rotation switch	Move to the right : Counter clockwise (CCW) rotation Move to the left : Clockwise (CW) rotation
40	SA721	Platform leveling switch	Move forward : Platform tilt up Move backwards : Platform tilt down
43	SA907	Horn button	Horn
45	SA110	Drive speed selector	 High-speed drive  Low-speed drive - Ramps
46	SB802	E-stop button	Pulled out : Platform control box energized Pressed in : De-energizes control system
49	SM900	Turntable rotation joystick	Move to the right : Counter clockwise (CCW) rotation Move to the left : Clockwise (CW) rotation
		Boom raise / lower joystick	Move forward : Raise boom Move backwards : Lower boom
50	SA421	Arm lifting selector	Move forward : Arm raises Move backwards : Arm lowers

B - Familiarization

CE, UKCA, AS and EAC standards

Marking	Description	Quantity	SIGMA 16	SIGMA 16 PRO
1	Height of the floor and load	2	4001082720	4001082760
2	Maximum Pressure per Tire - Floor Loading	4	4001083100	
3	Commercial name - Bright machine	2	4001082410	4001082390
3	Commercial name - Dark machine	2	4001122420	4001122430
4a	Decal HAULOTTE® - Bright machine	3	4001072210	
4a	Decal HAULOTTE® - Dark machine	3	4001072220	
4b	Decal HAULOTTE® - Bright machine	1	4001072250	
4b	Decal HAULOTTE® - Dark machine	1	4001072260	
6	Identification plate	1	For CE, AS and EAC standards only : 4000700160 UKCA standard only : 4001188820	
9	Control of movements - WHITE directional arrow	2	4001083270	
10	Control of movements - RED directional arrow	2	4001083390	
11	Lanyard attachment points	6	4001052020	
12	Material risk - Yellow and black adhesive tape	3	4001083240	
12	Material risk - Yellow and black adhesive tape	2	4001083250	
14	Collision hazard - Turntable rotation locking pin	1	4001081530	
16	Max and min oil level	1	4001052060	
18	Hand crushing hazard - Risk of crushed hands	2	4001052080	
19	Operation instructions	2	4001052090	
24a	Danger of electrocution	1	For CE, UKCA and EAC standards only : 4001052120	
24b	Danger of electrocution	2	For AS standard only : 4001052140	
25	Risk of crushing - Closing drop rail	1	4001052150	
26	Danger of electrocution - Ground for welding	2	4001052160	
28	Software version	1	4000504670	
30	Hand pump	1	4001083080	
31	Brake release	1	4001083070	
32	Anchorage point - Traction	4	4001052180	
34	Risk of electrocution - Water projection	1	4001052200	
36	Risk of crushing - Emergency lowering	2	4001081590	
55	Risk of electrocution - Charger - 240 V	1	4001074270	
65	Fire Hazard	2	4001052270	
68	Transport height	1	4001081770	
69	Battery isolation switch	1	4001040220	
70	Information - AC MAINTENANCE-FREE MOTORS - Bright machine	2	4001053450	
70	Information - AC MAINTENANCE-FREE MOTORS - Dark machine	2	4001053500	
75	Information - ACTIV' ENERGY MANAGEMENT - Bright machine	2	4001053460	
75	Information - ACTIV' ENERGY MANAGEMENT - Dark machine	2	4001053510	

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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. An auxiliary system (Overriding system) is available on the ground control box in order to rescue anyone trapped on the platform.

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 3.2 and D 2 - Ground control box and B 3.3 and D 3 - Platform control box.

4.1 - E-STOP BUTTON CHECK

Ground control box E-stop button

Step	Action
1	Pull the E-Stop button (9) at the ground control box.
2	Set the key switch (21) at ground box to the  position.
3	The indicator (10) lights up on ground control box.
5	Push the E-stop button (9).
6	Check that the onboard screen and the LED (10) switch off.
7	Check no movements are functional.

Platform control box E-stop button

Step	Action
1	Pull both E-Stop buttons (9) at ground box and (46) at platform box.
2	Set the key switch (21) at ground box to the  position.
3	The indicator (13) lights up on ground control box.
4	Push in E-Stop button (46) at platform.
5	Check that the indicators go out.
6	Check no movements are functional.

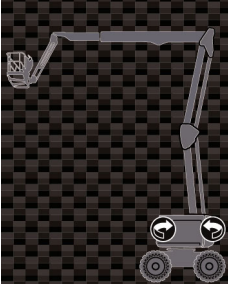


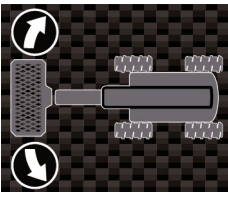


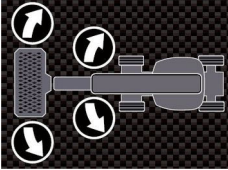





4.2 - ACTIVATION OF CONTROLS

The enable foot pedal (enable switch) must be activated to allow any movement.

The "Enable Switch" system depends on the machine configuration and will consist of one of the following :

- Foot pedal (enable switch) in the platform.
- Enable switch at ground box.

D - Operation instructions

Command	Action
Turntable rotation 	<p>Press the turntable rotation control (7)  for a clockwise (CW) rotation. Press the jib rotation control *1 *2 for an anti-clockwise rotation</p> <hr/> <p>Press the turntable rotation control (7)  for a counter-clockwise (CCW) rotation.</p>
Platform rotation 	<p>Press the platform rotation control (8)  for a clockwise (CW) rotation.</p> <hr/> <p>Press the platform rotation control (8)  for a counter-clockwise (CCW) rotation.</p>
Jib rotation (If equipped) 	<p>Press the jib rotation control (23)  for a clockwise rotation</p> <hr/> <p>Press the jib rotation control (23)  for an anti-clockwise rotation</p>
Platform leveling 	<p>Press the platform levelling control (1)  to tilt the platform upwards</p> <hr/> <p>Press the platform levelling control (1)  to tilt the platform downwards</p>

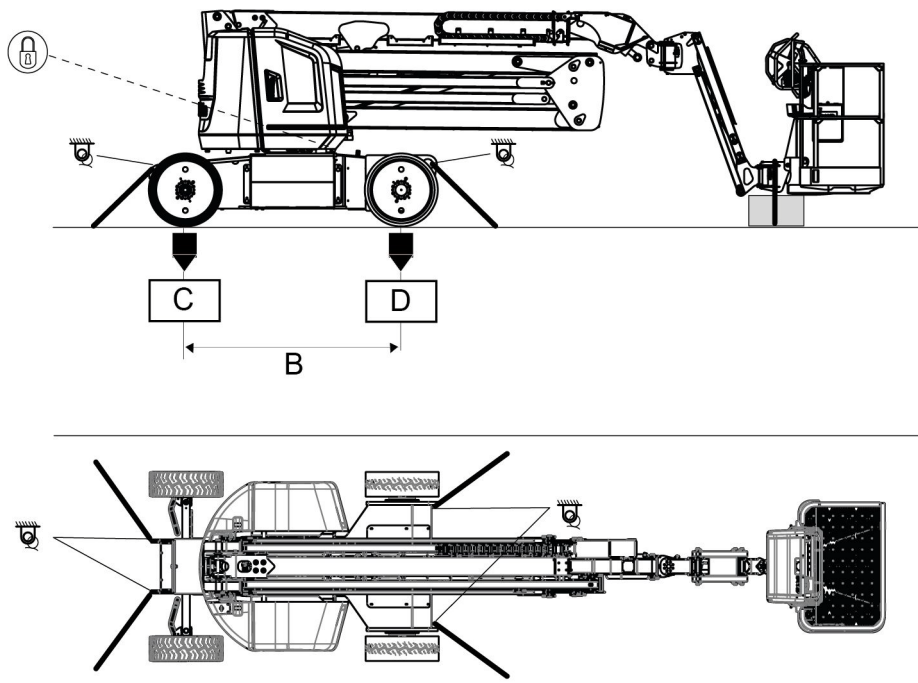
2.3 - ADDITIONAL CONTROLS

For the machines equipped with beacon light :

- Press the beacon light selector switch (14) to turn ON the beacon light.
- Press the beacon light selector switch (14) to turn OFF the beacon light.
- Push the horn selector (12) to the right to sound the horn. The horn stops when the selector switch is released.

D - Operation instructions


Machine stowing



N.B.:-SECURE THE TURNTABLE WITH THE TURNTABLE LOCKING PIN BEFORE HAULING THE MACHINE ON A TRUCK.

N.B.:-THE JIB CYLINDER LOWERS BY GRAVITY AND DOES NOT ALLOW THE PLATFORM TO BE FOLDED UNDER THE BOOM. THE ONLY TRANSPORT POSITION IS ACHIEVED WITH THE PLATFORM IN ACCESS POSITION.

Loading characteristics

Marking	Description	SIGMA 16 - SIGMA 46	SIGMA 16 PRO - SIGMA 46 PRO
B	Lateral distance between the wheels		2 m(6 ft7 in)
C	Front wheel ground pressure		13,7 daN/cm ²
D	Rear wheel ground pressure		13,7 daN/cm ²
	Anchorage point		

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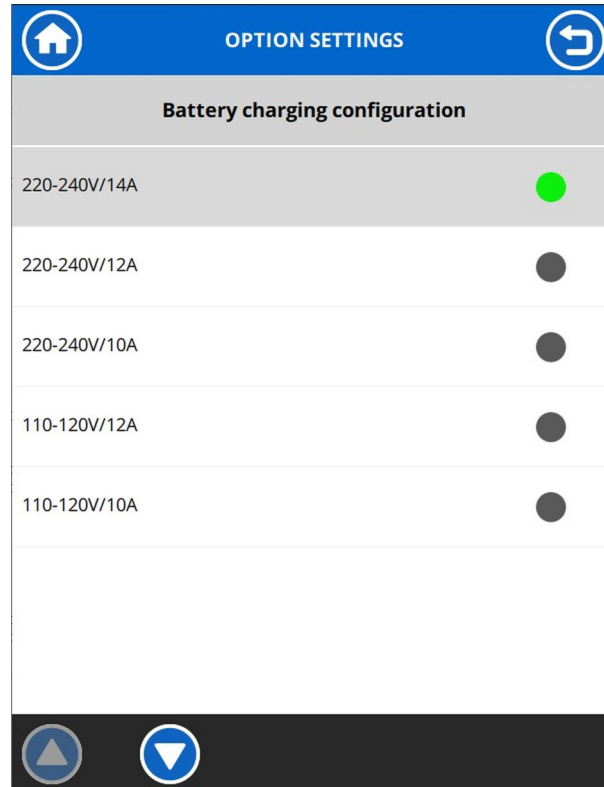
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D - Operation instructions

Machine settings / Machine configuration / Option setting / Battery charge configuration /



- Do not charge the battery when the outside temperature is -20°C .
- ALWAYS charge batteries in open, well-ventilated areas.
- You are advised to fully charge the battery at least 1 time every 7 days. If this is not done, a reminder will appear on Haulotte Diag.

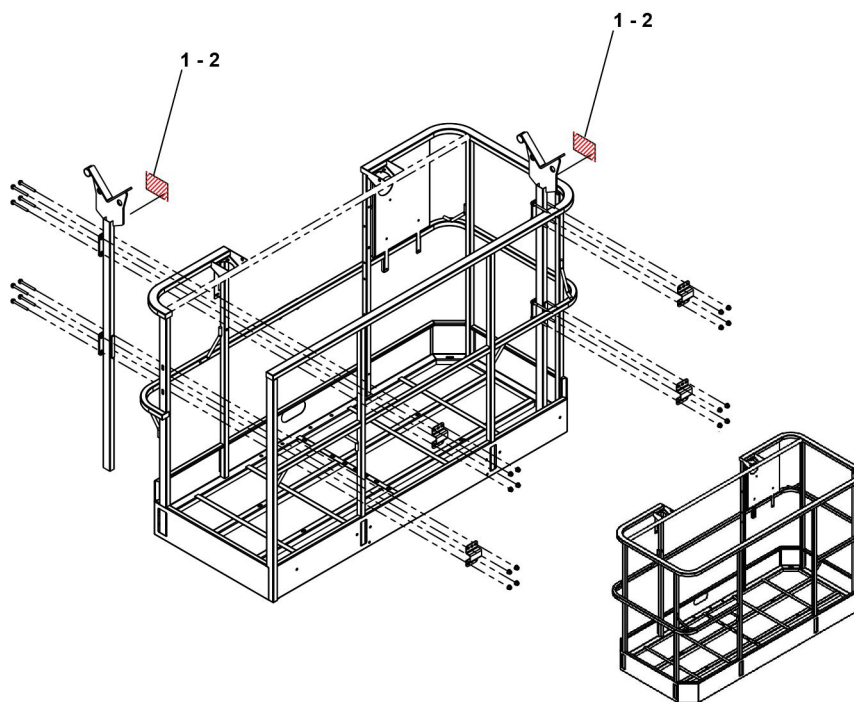
E- General Specifications

Machine		SIGMA 16 - SIGMA 46		SIGMA 16 PRO - SIGMA 46 PRO	
Marking	Specifications - Dimensions	SI	Imp.	SI	Imp.
A	Overall length of machine	6,55 m	21 ft 6 in	6,60 m	21 ft 8 in
B	Overall width of machine	1,75 m	5 ft 9 in	1,75 m	5 ft 9 in
C	Overall height of machine	2,00 m	6 ft 60 in	2,00 m	6 ft 60 in
D	Wheel base	2,00 m	6 ft 60 in	2,00 m	6 ft 60 in
E	Ground clearance	17 cm	7 in	17 cm	7 in
F X G	Platform dimensions	1,2 x 0,8 m	3 ft 11 in x 2 ft 7 in	1,2 x 0,8 m	3 ft 11 in x 2 ft 7 in
H	Storage length	6,55 m	21 ft 6 in	6,60 m	21 ft 8 in
J	Storage height	2,00 m	6 ft 60 in	2,00 m	6 ft 60 in
K	Center of gravity - X	1,13 m	3 ft 8 in	1,20 m	3 ft 11 in
L	Center of gravity - Y	0,95 m	3 ft 2 in	0,95 m	3 ft 2 in

E - General Specifications

5.3.7 - Specific decals, optional

Location of the decals



Marking	Description	Quantity	Part number
1	Risk of overturning	2	ANSI and CSA standards : In english 4000131600 In french 4000131610 In spanish 4000131620 In german 4000708570
2	Limit use of the option	2	CE, UKCA, AS and EAC standards : 4001098410

E- General Specifications

5.6.5 - Operation

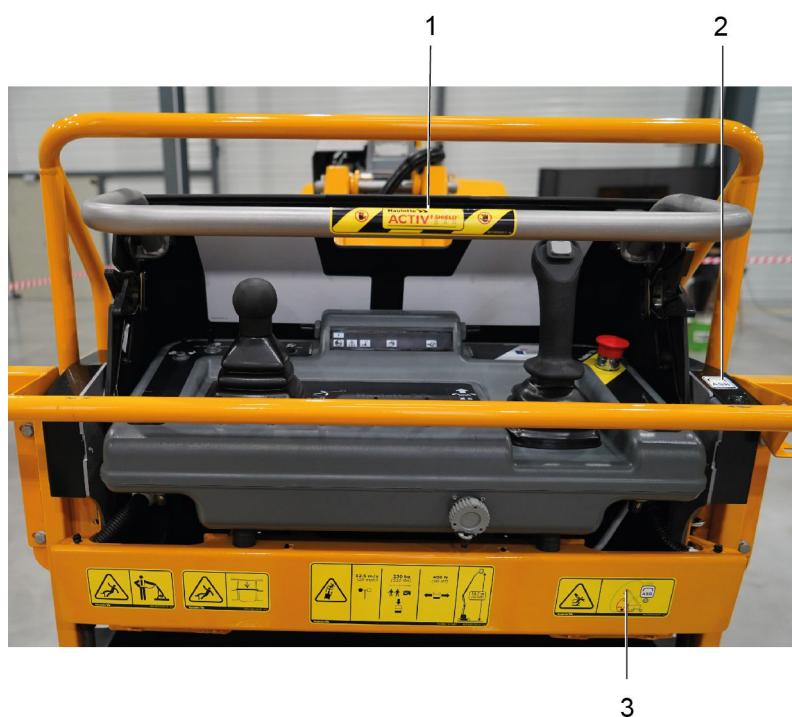
If the Activ' Shield Bar is pushed forward, all movements are stopped. The horn sounds and the warning blue light flashes. Only movements to move away from the entrapment are authorised.

To re-set the Activ' Shield Bar, release the activation bar, the Foot Switch and controls. Then, re-press the Foot Switch.

Care must be taken during all operations to prevent collision and entrapment against structures.

5.6.6 - Specific decals

Location of the decals



Marking	Description	Quantity	Part number - CE, UKCA, AS and EAC standards	Part number - ANSI and CSA standards
1	Do not lean on the bar	1	4001069640	4000206690
2	Activ' Shield Bar controls	1	4001069620	4000596720
3	Activ' Shield Bar instructions	1	4001081630	4000609540

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