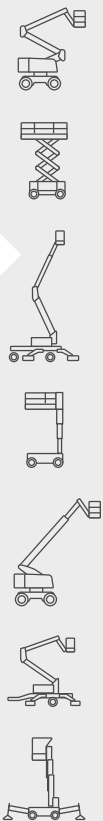


OPERATOR'S MANUAL

HT23RTJ O - HT23RTJ O SW - HT67RTJ O - HT23RTJ PRO -
HT23RTJ PRO SW - HT67RTJ PRO

Color screen display



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3 Safety

3.1 Safety instructions

3.1.1 Incorrect use

- Do not use the machine outside of the conditions specified in this manual.
- Do not use the machine as a crane, material lift or elevator.



- Do not use the work platform as a hoisting machine (crane) by suspending a load outside of the platform.
- Do not tie the boom or platform to an adjacent fixed or mobile structure.
- Do not use/operate the machine when alone. A survey person or immediate Supervisor must be present on the ground in case of emergency.
- Do not use a faulty or poorly maintained machine. Remove defective/damaged machine from service.
- Do not climb onto the compartment covers of the machine.
- Do not replace items critical to machine stability with items of different weight or specification.
- Do not replace the wheels installed in the factory with wheels with different characteristics
- Do not alter or disable machine components that in any way affect safety and stability.
- Do not disable the safety devices.
- Do not use the machine if a label is missing or illegible.
- Do not damage, modify or hide machine labels or inscriptions.

3.1.2 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.




6.4.2 Declaration of conformity - Thermal platforms

Declaration of conformity - CE standard



DECLARATION CE DE CONFORMITE
(EC DECLARATION OF CONFORMITY)



Fabricant et personne autorisée à constituer le dossier technique <i>(Manufacturer and the person authorised to compile the technical file.)</i>	Compliance & Regulation Director HAULOTTE GROUP S.A. RUE EMILE ZOLA
HAULOTTE GROUP	42420 LORETTTE FRANCE
Adresse du site de production <i>(Address of the Division)</i>	Nacelle élévatrice de personnel <i>(Mobile Elevating Work Platform)</i>
en conformité avec le modèle type <i>(In compliance with the Model Type)</i>	Modèle type de la machine concernée <i>(Type model of the concerned machine)</i>
Nom commercial <i>(Commercial name)</i>	Nom commercial de la machine concernée <i>(Commercial name of the concerned machine)</i>
Numéro de série <i>(Serial number)</i>	Numéro de série de la machine <i>(Serial number of the machine)</i>
Organisme notifié <i>(Notified body)</i>	Nom et adresse de l'organisme notifié <i>(Name and address of notified body)</i>
Numéro de certificat <i>(Certificate number)</i>	Numéro de certificat du type de machine <i>(Certificate number of the type of machine)</i>
Charge maximale d'utilisation <i>(Rated capacity)</i>	Charge maximale d'utilisation de la machine concernée <i>(Rated capacity of the concerned machine)</i>


Nous déclarons que cette machine est conforme aux dispositions des Directives suivantes
(We hereby declare that this machine conforms with all the relevant provisions of the Directives listed below)

Directive CE Machine <i>(EC Machinery Directive)</i>	2006/42/CE
Se conforme aux principales exigences de la norme harmonisée <i>(This machine also fulfils the principles of the harmonised standard)</i>	EN280:2013 + A1:2015
Directive CE concernant la compatibilité électromagnétique <i>(EC Directive on electromagnetic compatibility)</i>	2014/30/EU
Directive CE RED concernant les équipements radioélectriques (machine équipée) <i>(RED EC Directive on radio-electrical equipment (machine equipped))</i>	
Directive CE d'émission de bruit <i>(EC Outdoor Noise Directive)</i>	2000/14/EC
Méthode de mesure <i>(Measurement method)</i>	Annex III-B
Niveau de puissance acoustique garanti <i>(LWA, Guaranteed sound level)</i>	101 dB
Niveau de puissance acoustique mesuré max <i>(LWA, Maximum sound level)</i>	99 dB

Cette déclaration porte exclusivement sur la machine dans l'état où elle a été placée sur le marché
(This declaration relates exclusively to the machinery in the state in which it was placed on the market)

Toute modification de la machine décrite ci-dessus a pour effet d'invalider cette déclaration
(Any modification to the above described machine violates the validity of this declaration)

Nom et signature du Directeur du site de production <i>(Name and signature of the Division Director)</i>	Lieu <i>(Place)</i>
	Date <i>(Date)</i>

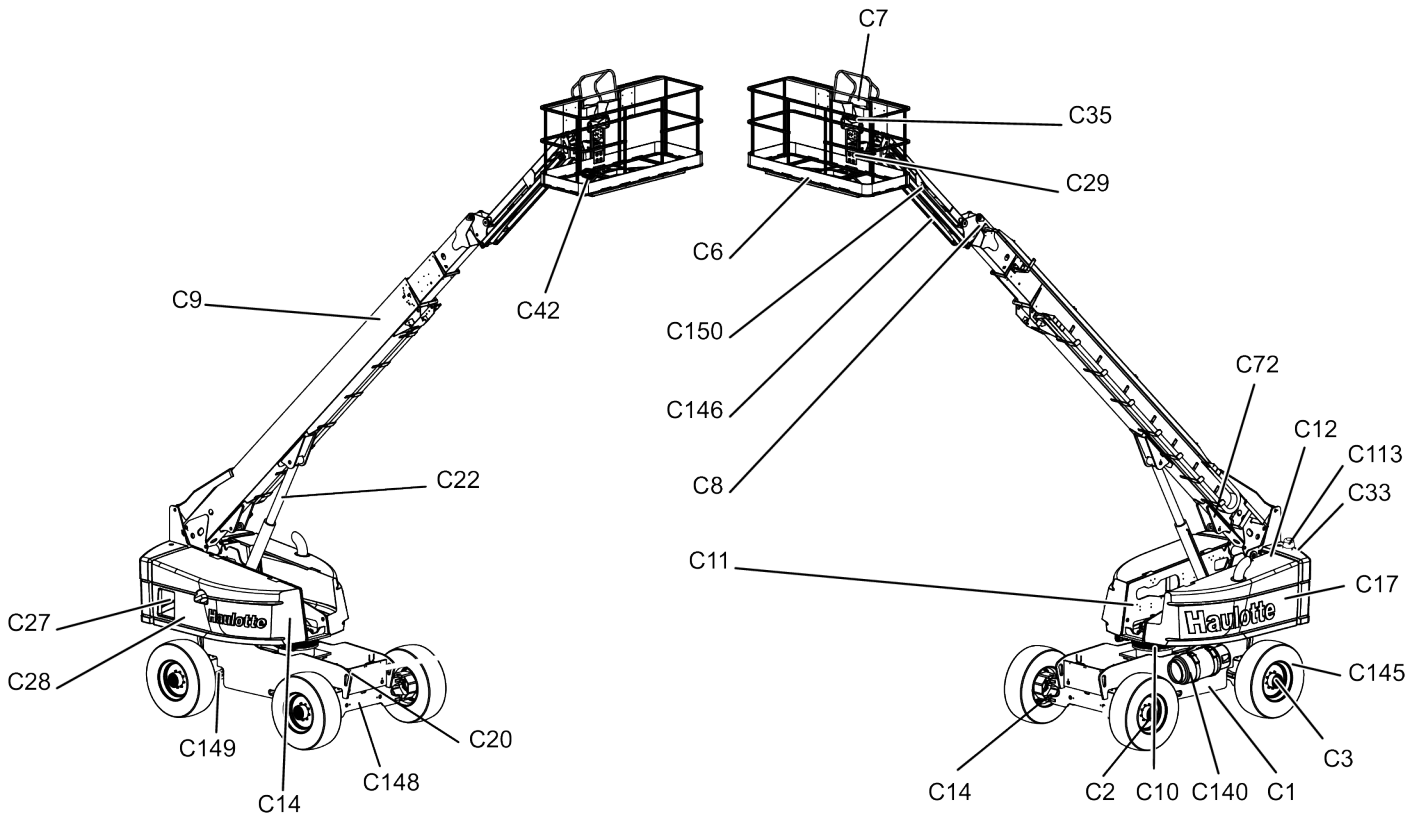


B - Familiarization

3 Primary machine components

3.1 Layout

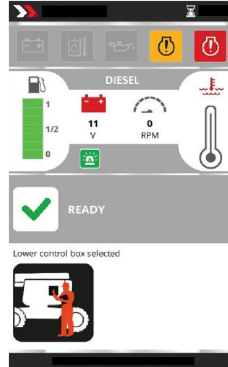
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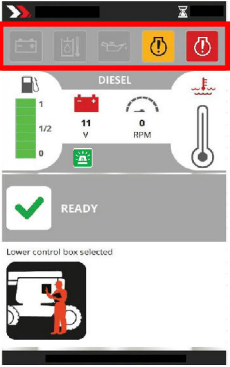
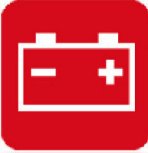





Marking	Description	Marking	Description
C1	Chassis	C27	Ground control box+Universal plug
C2	Front driven steering axle	C28	Tilt sensor
C3	Rear drive and/or steer wheel	C29	Platform rotation cylinder
C6	Platform	C33	Counterweight
C7	Platform control box	C35	Document holder
C8	Input jib leveling cylinder	C42	Foot Switch
C9	Upper boom	C72	Output jib compensation cylinder
C10	Slew ring	C113	Beacon light
C11	Turntable assembly	C140	Propane bottles- (For petrol / gas machines)
C12	Side cover	C145	Rear drive wheel

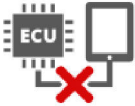




B - Familiarization

Icon	Function	Icon	Function	Description
Home screen (dashboard) - Will be visible - depending on the machine				

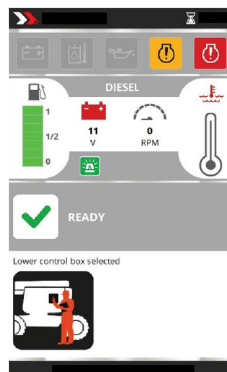


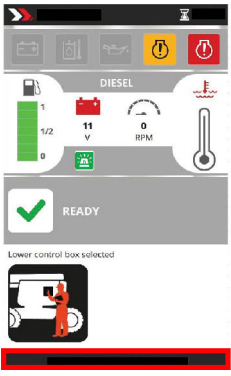


	Warning icons zone		Battery status	<ul style="list-style-type: none"> - Icon is ON if there is no charge output detected from the alternator. - Icon is flashing if a failure code for the alternator is detected (code F09.10).
			Hydraulic oil temperature	<p>Icon is ON when the temperature in the hydraulic reservoir has exceeded the maximum required temperature.</p> <p>Stop using the machine and allow the oil to cool down.</p>
			Engine oil pressure	<p>Icon is ON if engine oil pressure is lower than required limit while engine is running.</p> <p>The Engine must be switched OFF immediately to avoid damaging the motor.</p>
			Stop engine	<ul style="list-style-type: none"> - The icon is lit if engine failure is detected (coolant, oil pressure, alternator, etc.). - Or if the Engine shuts down after 3 seconds of running. - Or after 1 second when engine fails to start.

B - Familiarization


Icon	Function	Description
Home screen (dashboard) - Will be visible - depending on the machine		
	F12.01 Bus CAN fault	CAN network fault between the screen and the rest of the machine
	Activ' Shield Bar disable	The secondary safety system is switched off (If fitted)
	Activ' Shield Bar triggered	<p>The secondary safety system is triggered. An operator may be trapped on the platform:-</p> <ul style="list-style-type: none"> - In this situation, supervisor(s) at ground level must turn the control box key selector (22) to the ground control box  position to take control - The platform box controls are de-energized - Check that the E-Stop button (9) at ground is not pressed in - To safely activate movements from the ground control box, the Enable Switch (6)  must be pressed and held

Icon	Function	Icon	Function	Description
Home screen (dashboard) - Will be visible - depending on the machine				



	General information zone		Machine software version and code	Displays the reference and version of the software installed on the machine
			Machine date and time	Displays the date and time of the machine ECU






B - Familiarization

1.  icon lights up on ground control box.
2. DPF activation icon HL302 / LED107 on the platform control box display lights up.





3.4.3 Manual regeneration



The machine cannot be used during the manual regeneration cycle.

1. Park the machine in a safe stowed position outside location and away from other equipment.
2. Check that the fuel level icon  on the ground control box doesn't light-up.
3. Put the engine hood in closed position.
4. Press the regeneration button  on the ground control box and hold for 5 seconds.
5. When regeneration is initiated, the regeneration icon  on the ground control box starts blinking.
6. Engine speed increases to 2300 rpm.
7. The regeneration cycle will take approximately 15 min.
8. When regeneration is complete, all engine lights   on the ground control box are turned off. Engine speed is automatically decreased to idle speed.

3.4.4 To inhibit regeneration

To inhibit regeneration (indoors or in explosive atmosphere), press button  on ground control box and hold for 5 seconds. The regeneration is inhibited until cancellation. To activate regeneration, press the button  again during 5 seconds. When the regeneration is inhibited,  at ground control box and  at platform control box display light up.


3.4.5 To stop manual regeneration

Use this function only in case of emergency.

Regeneration process can be stopped by

- Press the inhibition button  and hold for 5 seconds.

Or

- Press the launching regeneration button  and hold for 5 seconds.

Or

- Initiate any function movement.

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B - Familiarization

Marking	Color	Description	Quantity	HT23RTJ O	HT23RTJ PRO
25	Red	Risk of crushing-Closing drop rail	1	307P226950	
26	Red	Danger of electrocution-Ground for welding	1	307P226970	
27	Red	Verification of tilt operation	1	For Russia : 307P227060 For Ukraine : 307P227870	
28	Red	Do not interchange	1	4000504670	
32	Blue	Anchorage point-Traction	6	4000135970	
33	Blue	Anchorage point-Elevation	4	4000135960	
34	Red	Risk of electrocution-Water projection	2	307P226780	
36	Red	Risk of crushing-Emergency lowering	1	4000014290	
38	Orange	Hand crushing hazard-Burn injuries	1	4000200810	
39	Other	Engine oilCJ-4	1	4000318680	
40	Orange	Hand crushing hazard-Snapping up	1	307P226940	
41	Other	Revolving cradle	1	307P215290	
47	Blue	Fuel filter-TIER IV	1	For Russia : 4000416640 For Ukraine : 4000416650	
51	Blue	Information-Outlet240V	1	4000027120	
68	Other	Transport height	1	4000417570	
78	Other	QR Code ( https://www.e-technical-information.com)	1	4001089310	
206	Red	Flames prohibited	2	307P226750	
207	Red	Smoking forbidden	1	307P226760	
209	Yellow	Battery danger	1	307P226790	
210	Yellow	Fire Hazard	1	307P226800	
211	Yellow	Electrical danger	1	307P226810	
213	Yellow	Corrosion hazard	1	307P226830	
214	Yellow	Danger unstable side	1	307P226930	
217	Blue	Caution glasses	1	307P227460	

C - Pre-operation inspection

3 Inspection and Functional test

3.1 Daily inspection

Each day before the beginning of a new work session and with each change of operator, the machine must be subjected to a visual inspection and a complete functional test.



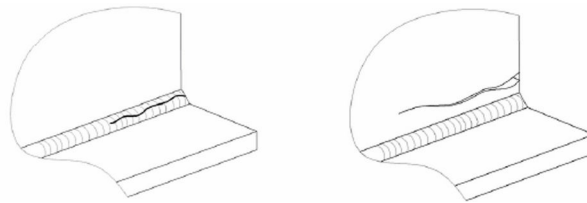
- Never use a defective or a malfunctioning aerial work platform.
- If any item on the check list is marked "No" during the inspection; machine must be tagged and placed out of service.
- Do not operate the machine until all identified items are corrected and it has been declared safe for operation.

In case of loose fasteners, refer to torque table value in maintenance book.

In case of leaks, replace the damaged part before use.

In case of structural part deformation (cracks, broken weld, paint chips) replace the part before use.









Sample of broken welds



We recommend these forms to be completed daily and stored to assist with your maintenance schedule.

Each action is depicted in the daily inspection sheet using the following symbols.

Use the detailed program below.

	Oil change		Lubrication-Lubrication		Tightening
	Levelling		Systematic replacement		Functional adjustments / Checks / Cleaning
	Visual inspection		To check by test		

Serial number : Hours of operation : HAULOTTE Services® contract reference : Intervention record number : Date : Name :	Model : Signature :
--	------------------------

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D - Operation instructions

3.4.1 Stop Emission System


The machine is equipped with the innovative Stop Emission System that automatically stops the engine after 90 s of inactivity. Engine can be restarted by pressing the 'enable switch' foot pedal (C42).

N.B.-:THIS SYSTEM IS ONLY AVAILABLE WHEN THE PLATFORM CONTROL BOX IS SELECTED.



If the machine is equipped with arctic option, Stop Emission System is deactivated. The Stop Emission System can be reactivated at any time by a HAULOTTE Services® technician.

3.4.2 Activ' Lighting System

Refer to  B 3.3 - Platform control box.

This option means that the operator will be able to safely load (or unload) the machine onto the truck.

Located on the turntable, boom and platform, the Activ' Lighting System system lights up the controls and surrounding areas of the machine. Users can then safely move the machine.

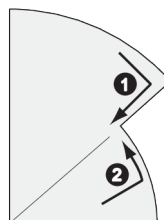
3.4.3 Dual load selector (if fitted)

N.B.-:THE LOAD SELECTION (82) MUST BE DONE ONLY IN STATIC POSITION. LOAD SELECTION CAN BE DONE ONLY FROM THE PLATFORM CONTROL BOX.

- When the machine is switched on (whatever control box is selected) the machine recognizes the load per the selector (82) position on the platform control box (450 kg (1000 lbs) or 230 kg (500 lbs)) .
- When 450 kg (1000 lbs) is selected, movement is automatically cut off when the machine reaches the limit of the 450 kg (1000 lbs) work zone. The load selection indicator (LED 109) is on.
- When 230 kg (500 lbs) is selected, there is no load chart limit. The load selection indicator (LED 109) is on.
- All movements are authorized.

To safely utilize the working area/range of motion, follow the below steps and as shown in the illustrations

1. If boom lowering is cut-off, then retract the boom to recover the lowering movement.
2. If boom telescoping is cut off, lift the boom to recover the boom telescoping movement.



N.B.-:THE WORK ZONE CORRESPONDS TO THE POSITION OF THE 230 KG (500 LBS) / 450 KG (1000 LBS) LOAD SELECTOR. THE WORK ZONE REFERS TO THE LABEL LOCATED ON THE PLATFORM. IF THE PLATFORM LOAD IS BETWEEN 230 KG (500 LBS) AND 450 KG (1000 LBS), THEN THE PLATFORM CANNOT BE POSITIONED IN THE RESTRICTED AREA.

N.B.-:IF THE LOAD SELECTION INDICATOR (LED 109) FLASHES, THIS MEANS THAT THE LOAD SELECTION HAS NOT BEEN TAKEN INTO ACCOUNT. RETRACT THE TELESCOPE TO THE STOP THEN SELECT THE LOAD AGAIN USING THE LOAD SELECTOR (82).

D - Operation instructions

6 Cold Weather Recommendations

In cold weather conditions, allow engine to run for at least 5 min to warm up ; before operating any function thereby preventing any damage to the hydraulic system.

In extreme cold conditions, machines should be equipped with optional cold start kits.

Attempting to start engine when temperature is in the negative range, may require the use of a booster battery.

If engine fails to start, do not crank for an extended time. Allow starter to "cool off" for a few minutes before attempting again. If engine fails after several attempts, refer to the engine maintenance manual.

N.B.-:INITIAL STARTING SHOULD ALWAYS BE PERFORMED FROM THE GROUND CONTROL BOX.

N.B.-:WHEN POWER IS SWITCHED ON, THE LED (102) AT PLATFORM CONTROL DISPLAY PANEL FLASHES, INDICATING THAT THE ENGINE IS IN AUTOMATIC PRE-HEATING MODE. UPON THE EXTINCTION OF THIS LIGHT (JUST IN SECONDS) AT PLATFORM, STARTING OF THE MACHINE IS POSSIBLE.

6.1 Engine oil

The correct SAE viscosity grade of oil is determined by the minimum ambient temperature during cold engine start-up, and the maximum ambient temperature during engine operation.

In general, use the oil with the lowest viscosity to meet starting temperature requirements.

Engine oil viscosity		
Viscosity index	Ambient temperature	
	Minimum	Maximum
SAE 0W20	-40°C (-40°F)	10°C (50°F)
SAE 0W30	-40°C (-40°F)	30°C (86°F)
SAE 0W40	-40°C (-40°F)	40°C (104°F)
SAE 5W30	-30°C (-22°F)	30°C (86°F)
SAE 5W40	-30°C (-22°F)	40°C (104°F)
SAE 10W30	-20°C (-4°F)	40°C (104°F)
SAE 15W40	-10°C (14°F)	50°C (122°F)

Classification API

Fuel type	Engine oil classification
Low sulfur fuel ≤ [0.05% (500 ppm)] Sulfur content < 0.50% (5000 ppm)	APICJ-4 or CK-4 (If fuel with a high sulfur content is used, change the engine oil more frequently (reduce the intervals between each oil change by approximately half))

N.B.-:FOR ADDITIONAL ENGINE OIL RECOMMENDATIONS, REFER TO THE ENGINE MANUAL PROVIDED WITH THE MACHINE.

E - General Specifications

5 Options

5.1 Dual load

Main specifications with the option fitted

Characteristics	HT23RTJ O - HT23RTJ O SW - HT67RTJ O - HT23RTJ PRO - HT23RTJ PRO SW - HT67RTJ PRO
Maximum platform load	230 kg - 450 kg / 500 lbs - 1000 lbs

5.2 Platform

Technical specifications

Type	HT23RTJ O - HT23RTJ O SW - HT67RTJ O - HT23RTJ PRO - HT23RTJ PRO SW - HT67RTJ PRO		Platform entry
Small platform	Platform width	0,8 m - 2 ft 7	Sliding bar
	Platform length	1,80 m - 5 ft 11 in	Swing gate
Large platform	Platform width	0,91 m - 3 ft	Sliding bar
	Platform length	2,44 m - 8 ft	Swing gate

Technical specifications

Type	HT67RTJ O - HT67RTJ PRO		Platform entry
Ultra narrow platform (Option - Only for single load machines) ⁽¹⁾	Platform width	0,77 m - 2 ft 6 in	Sliding bar
	Platform length	1,27 m - 4 ft 2 in	

Sliding bar

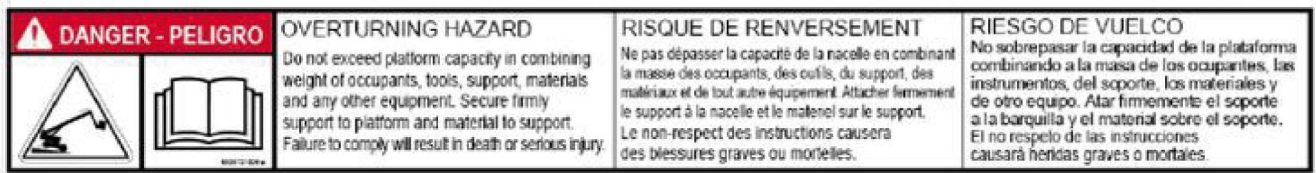


⁽¹⁾ For ANSI and CSA standards only

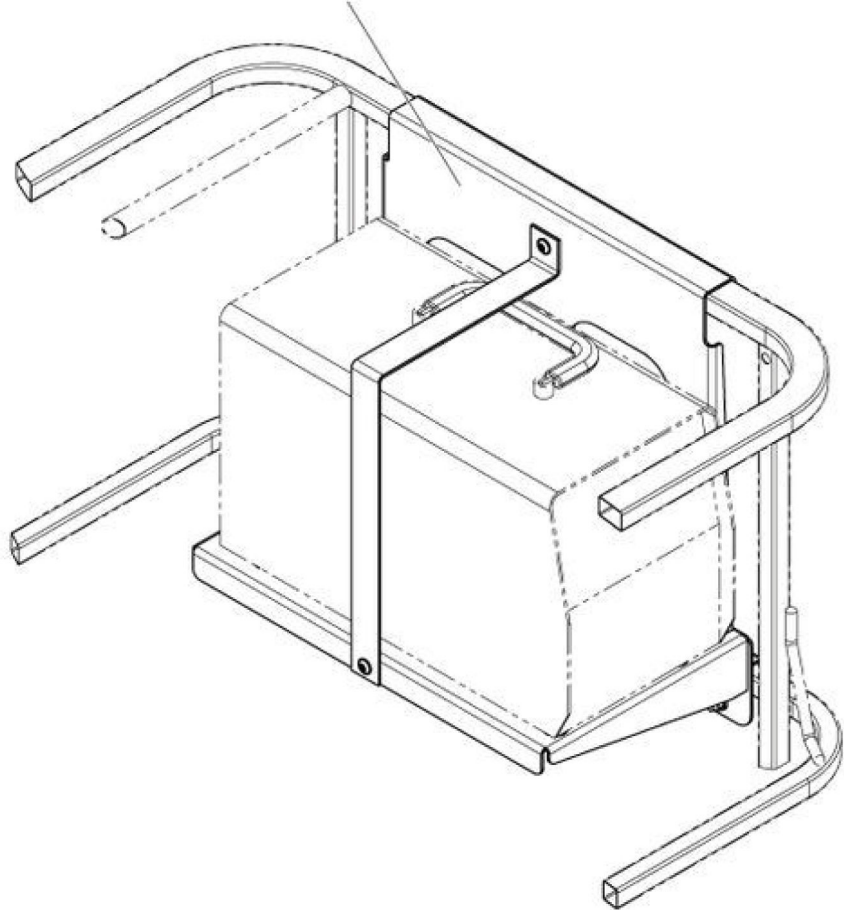
E - General Specifications

5.5.7 Specific decals

Location of the decals



1



Marking	Description	Quantity	Part number
1	Risk of overturning	1	4000131830

5.6 Plumber's kit

5.6.1 Description

This attachment is an assembly designed to transport pipes and tubes. It comprises 2 cradles fixed to the rear side inside the platform. The load (material) should be placed in both the cradles and secured with a strap (not supplied).

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.  C 3 - Inspection and Functional test.

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