

**HA26 RTJ O - HA26 RTJ O SW - HA26 RTJ PRO - HA26 RTJ PRO SW -
HA80 RTJ O - HA80 RTJ PRO**

Maintenance Manual

**HA26 RTJ O - HA26 RTJ O SW -
HA26 RTJ PRO - HA26 RTJ PRO SW -
HA80 RTJ O - HA80 RTJ PRO**

4001258500

E 01.23

USA / GB



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A - Responsibilities and commitments

3.3 - PRODUCT INFORMATION

In a constant concern to improve the reliability and safety of its machines, HAULOTTE® provides the following documents from the site www.e-technical-information.com :

- OI : Obligatory Intervention, Safety information requiring immediate action (take into account by HAULOTTE®).
- NI : Technical improvement requiring immediate action (take into account by HAULOTTE®).
- RI : Improvement proposed to customers to take into account during maintenance operation.

3.3.1 - Implementing manufacturer safety campaigns

It is essential to implement the safety campaigns issued by the manufacturer. All of these campaigns are accessible on our website.

Connect to our website : www.haulotte.com









Never market (or sell) a machine without first having carried out all of the safety campaigns.

4 - Conditions of warranty

Our warranty conditions and extension contracts are now available on the websites of our sales network : www.haulotte.com

C - Familiarization

Controls and indicators

Icon	Description	Function
	Platform control selected	Selector switch is in platform control box position
	Ground control selected	Selector switch is in ground control box position
	Tilt	The machine is elevated , and is on a slope greater than the permitted slope. Depending on the machine configuration, machine raise and extend functions may be slowed or prevented.
	Overload	The platform is overloaded. Remove the excessive load to or below the rated capacity, to restore functions. In case of an emergency, to rescue the operator in platform, use the Overriding system.
	Diagnostic in progress	The HaulotteDiag console is connected to the machine
	Screen software obsolete	Screen software update essential Contact HAULOTTE Services®

C - Familiarization

3.3 - HYDRAULIC OIL

Hydraulic oils must comply with the following requirements :

- Oil filterability must be compatible with absolute filters 5 μ.
- CCompatibility with elastomers (polyurethane, NBR, VITON, etc.).
- Have properties such as :
 - Antifoam and deaeration
 - Anti-wear, anti-shear and antioxydant
 - Rust and corrosion inhibitors (copper)

Biodegradable oils may be used if they comply with the following requirements :




- HEES type biodegradable oil only according to standards ISO 15380 and VDMA 24568

The recommended viscosity grades depending on the environmental conditions are as follows :

N.B.-:-REFER TO  - CONSUMABLES









	Viscosity grade	HV46	HV46 Biodegradable	HV32	HV68
Ambient temperature		Between - 15° C (- 9° F) and + 40° C (+ 104° F)	Between - 15° C (- 9° F) and + 40° C (+ 104° F)	Between - 35° C (- 31° F) and + 35° C (+ 95° F)	Between 0° C (+ 32° F) and + 45° C (+ 113° F)
Hydraulic oil temperature		Between - 15° C (- 9° F) and + 80° C (+ 176° F)	Between - 15° C (- 9° F) and + 80° C (+ 176° F)	Between - 35° C (- 31° F) and + 80° C (+ 176° F)	Between 0° C (+ 32° F) and + 85° C (+ 185° F)
	Standards				
Viscosity at + 40° C (+ 104° F)	ISO 3104	46 +/- 3 cst	46 +/- 3 cst	32 +/- 3 cst	68 +/- 3 cst
Viscosity at + 100° C (+ 260° F)	ISO 3104	> 8 cst	> 8 cst	> 8 cst	> 10,5 cst
Viscosity Index	ISO 2909	> 150	> 160	> 250	> 150
Flashpoint	ISO 2592	> 210° C (> 410° F)	> 220° C (> 428° F)	> 125° C (> 257° F)	> 220° C (> 428° F)
Pour point	ISO 3016	< - 40 ° C (< - 40° F)	< - 40 ° C (< - 40° F)	< - 50 ° C (< - 58° F)	< - 35 ° C (< - 31° F)

D - Inspection and maintenance schedule

Every 6 months or 500H	Page or associated procedure	Every 6 months or 500H	OK	NOK	Corrected	Comments
Jib						
Tighten the rotary cylinder	MP0016					
Tighten the load cell	MP0015					
Platform						
Tighten the mounting on the platform support, the platform floor and the platform access	MP0017					

* Do not take into account the deadline of 6 months, only 500H.

Preventive Maintenance Level 2 - Every 1 year or 1000H

Every 1 year or 1000H	Page or associated procedure	Every 1 year or 1000H	OK	NOK	Corrected	Comments
Chassis assembly : Wheel, reducer, steering, wheel pivot						
Drain the wheel reducer	MP0043					
KUBOTA WG2503 engine						
Replace the fuel filter	MP0005					
Replace the air filter	MP0010					
KUBOTA V2403M / V2403CR T4B / V2403CR T5B engine						
Replace the air filter	MP0010					
KOHLER KDI 1903 engine						
Replace the air filter	MP0010					
PERKINS 404D-22 engine						
Replace the air filter	MP0010					
Hydraulic : oils, filters and hoses						
Replace the hydraulic filter	MP0006					
Arm, boom						
Check the pads-Replacement if necessary	MP0011					

1 - Concerned machines

- HA20 LE - HA20 LE PRO - HA61 LE - HA61 LE PRO
- HA20 RTJ PRO - HA61 RTJ PRO
- HA26 RTJ O - HA26 RTJ O SW - HA26 RTJ PRO - HA26 RTJ PRO SW - HA80 RTJ O - HA80 RTJ PRO
- HT26 RT O - HT26 RT O SW - HT28 RTJ O - HT28 RTJ O SW - HT28 RTJ PRO - HT28 RTJ PRO SW - HT80 RT O - HT85 RTJ O - HT85 RTJ PRO

2 - Warning






- Only an authorised and qualified technician is permitted to work on the machines HAULOTTE®.
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- Generally speaking, the user must comply with regulatory obligations in force, particularly those relating specifically to working alone, co-activity and manual load handling...
- The user must have all the permits/authorizations required to work (fire permit, etc.) and comply with the specific safety instructions at the intervention site.
- Only risks linked specifically to activities relating to the disassembly and assembly of the machine HAULOTTE® are described in this sheet.

3 - Risk prevention

Means of protection to be used when implementing the range

	Appropriate workwear		Gloves
	Safety shoes		

4 - You will need

	<ul style="list-style-type: none"> • "DO NOT OPERATE" tag • Standard tool kit • Jack 2000 kg(4409 lb) • Chocks 4 m(13 ft2 in) • 1 syringe for oil filling • Oil collection pan 		Place barriers around the perimeter of the work area
	1 person		

6 - Procedure

- Position the machine on a flat and firm surface, clear of obstructions (beware of power lines).
- Put the machine in stowed position, boom and arm fully retracted and lowered.
- Switch off the ignition and remove the ignition key.
- Place a do not operate tag at the start/stop switch location to inform personnel that the equipment is being worked on.



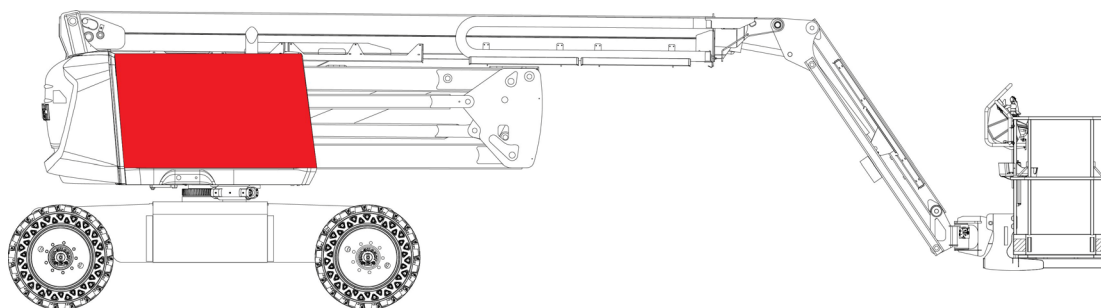
- Check the engine oil level before starting or more than 5 minutes after stopping the engine.
- Remove the oil level gauge, wipe it clean and reinstall it (4).
- Remove the gauge again :
- If the oil level is between the marks (1) and (2), the oil level is correct.



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2 - Concerned area



3 - Warning



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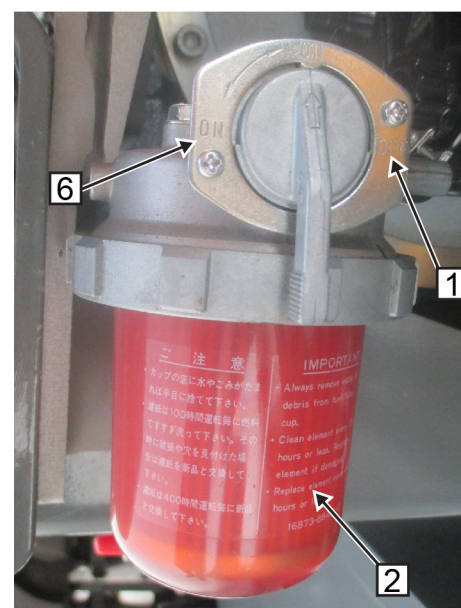
- Beware of the risk of burns; the hydraulic system operates at high temperatures.
- The pressure in the hydraulic system is very important. It can cause accidents. Relieve the pressure before beginning any work and never search for oil leaks using your hands.
- The engine exhaust gases contain harmful combustion products. Always start and run the engine in a well ventilated area. In a closed room, ensure the exhaust gases are evacuated to the outside.
- Be sure to stop the engine before checking and changing the engine oil and the oil filter cartridge.
- Do not touch muffler or exhaust pipes while they are hot; Severe burns could result.
- Always stop the engine and allow it to cool before conducting inspections, maintenance, or for a cleaning procedure.
- Contact with engine oil can damage your skin.
- If you come in contact with engine oil, wash it off immediately.

5 - Procedure

- Position the machine on a flat and firm surface, clear of obstructions (beware of power lines).
- Put the machine in stowed position, boom and arm fully retracted and lowered.
- Switch off the ignition and remove the ignition key.
- Place a do not operate tag at the start/stop switch location to inform personnel that the equipment is being worked on.

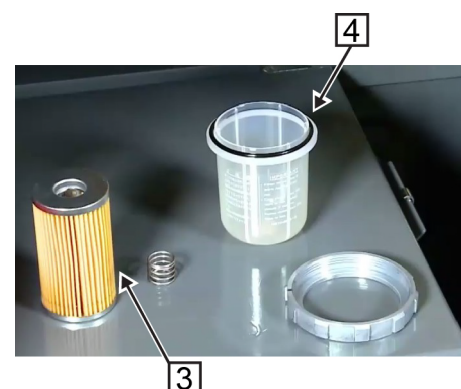
Dis-assembly :

- Set the handle of the separator to "OFF" (1).
- Loosen and remove the container (2) using a filter wrench.
- Remove the cartridge from the diesel filter (3).



Assembly :

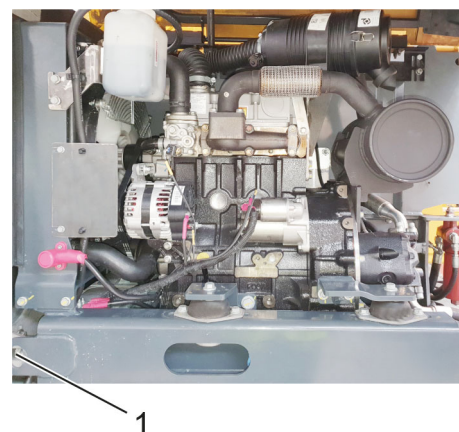
- Clean the inside of the diesel filter jar (2).
- Replace the seal of the container (4) and reassemble in the reverse order to disassembly.
- Apply a thin layer of fuel to the surface of the seal of the container (4).
- Tighten the container by hand then lock with the filter wrench.
- Open the fuel valve (1), setting it to "ON", and reboot the system using the button behind the engine (5).
- Release the air by loosening the screw, then re-tightening it (6).



MP0005H

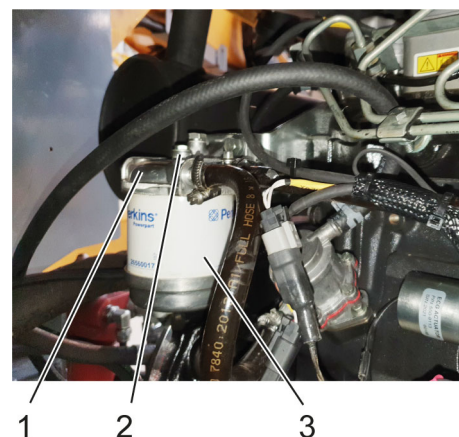
6.2 - DIESEL FILTER (SECONDARY)

- Pivot the motor tank by unscrewing the screw (1).



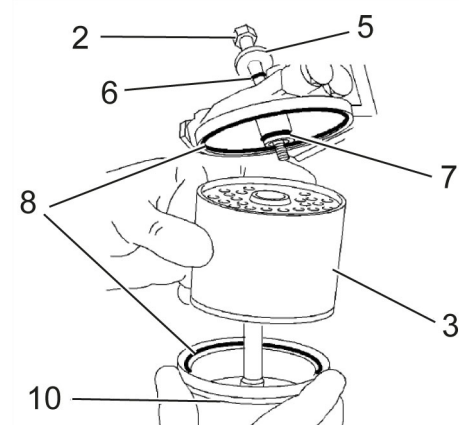
Dis-assembly :

- Clean the outside of the fuel filter assembly (1).
- Remove setscrew (2).
- Remove the cartridge from the diesel filter (3). Allow the liquid to flow into the receptacle.



Assembly :

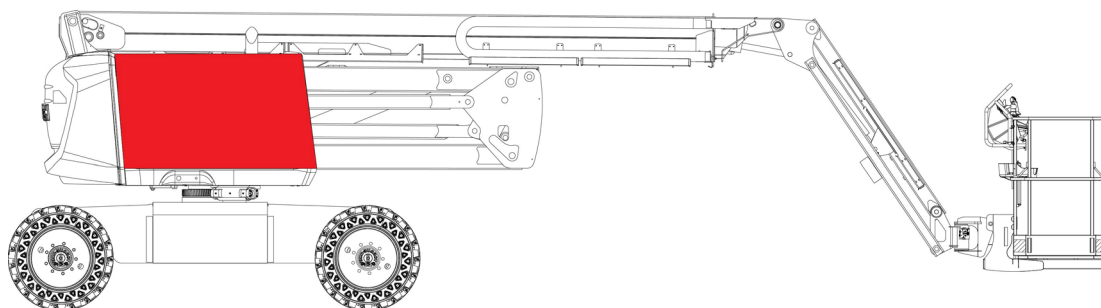
- Replace the seals (8, 7).
- Install a new cartridge (3).
- Close the casing again (10).
- Place washer (5) and new seal (6) on setscrew (2).
- Fasten the assembly to the fuel filter base with setscrew (2)



1 - Concerned machines

- HA20 RTJ - HA20 RTJ O - HA20 RTJ PRO - HA61 RTJ O - HA61 RTJ PRO
- HA26 RTJ O - HA26 RTJ O SW - HA26 RTJ PRO - HA26 RTJ PRO SW - HA80 RTJ O - HA80 RTJ PRO

2 - Concerned area



3 - Warning



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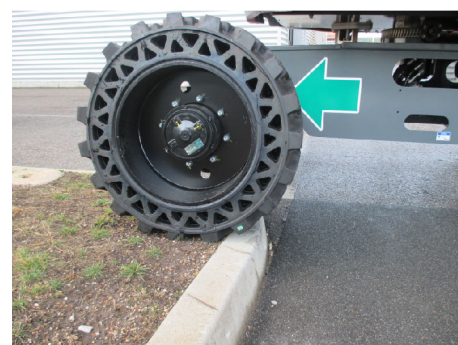
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- The pressure in the hydraulic system is very important. It can cause accidents. Relieve the pressure before beginning any work and never search for oil leaks using your hands.
- The engine exhaust gases contain harmful combustion products. Always start and run the engine in a well ventilated area. In a closed room, ensure the exhaust gases are evacuated to the outside.

6 - Procedure

The front axles will oscillate when the boom is in transport position (i.e. when the boom is less than 15° above horizontal and not extended beyond 30cm (12in) on the machine and drive is selected.

Ensure the axles are extended and the boom is fully retracted, lowered, and centered between the rear wheels prior to beginning lockout cylinder test :

- Place a 15 cm (6 in) high block with ascension ramp in front of left front wheel.
- From platform control box, start engine.
- Place the drive control lever to the forward position and carefully drive machine up ascension ramp until left front wheels is on top of block.
- Carefully extend the boom just enough to get it out of the transport position.
- With boom in this position, place drive control lever to reverse and carefully drive machine off of block and ramp.
- Have an assistant check to see that left front or right rear wheel remains elevated in position off of the ground.
- Carefully return the boom to the transport position. When boom reaches the transport position, carefully activate drive to release cylinders. To lockout cylinders should release and allow the wheel to rest on ground. This operation must be realized with extremes precautions by standing strongly on the platform by the contact with the ground.
- Repeat the procedure for the right oscillation cylinder checking to see that the right front or left rear wheel remains elevated in position off of the ground.
- If lockout cylinders do not function properly, have qualified personnel correct the malfunction prior to any further operation.



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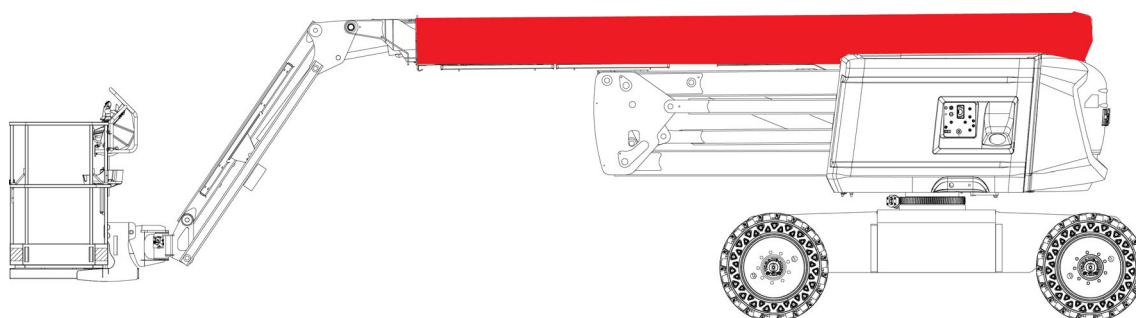
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- HA26 RTJ O - HA26 RTJ O SW - HA26 RTJ PRO - HA26 RTJ PRO SW - HA80 RTJ O - HA80 RTJ PRO

2 - Concerned area



3 - Warning



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4 - Risk prevention

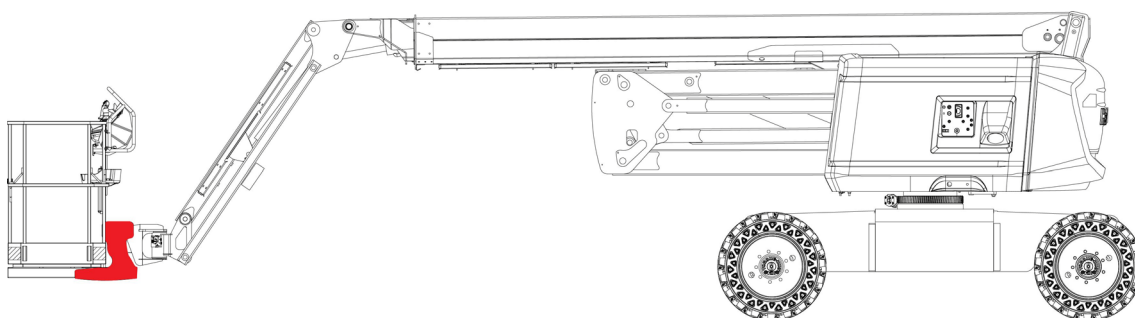
Means of protection to be used when implementing the range

	Appropriate workwear		Gloves
	Safety shoes		

1 - Concerned machines

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- HA16 RTJ - HA16 RTJ O - HA16 RTJ PRO - HA46 RTJ O - HA46 RTJ PRO
- HA20 RTJ - HA20 RTJ O - HA20 RTJ PRO - HA61 RTJ O - HA61 RTJ PRO
- HA26 RTJ O - HA26 RTJ O SW - HA26 RTJ PRO - HA26 RTJ PRO SW - HA80 RTJ O - HA80 RTJ PRO
- HA32 RTJ PRO - HA100 RTJ PRO - HA41 RTJ PRO - HA130 RTJ PRO
- HT21 RT O - HT21 RT O SW - HT61 RT O - HT21 RT PRO - HT21 RT PRO SW - HT61 RT PRO - HT23 RTJ O - HT23 RTJ O SW - HT67 RTJ O HT23 RTJ PRO - HT23 RTJ PRO SW - HT67 RTJ PRO
- HT26 RT O - HT26 RT O SW - HT28 RTJ O - HT28 RTJ O SW - HT28 RTJ PRO - HT28 RTJ PRO SW - HT80 RT O - HT85 RTJ O - HT85 RTJ PRO
- HT43 RTJ PRO - HT132 RTJ PRO

2 - Concerned area



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3 - Risk prevention

Means of protection to be used when implementing the range

	Appropriate workwear		Gloves
	Safety shoes		

4 - You will need

	<ul style="list-style-type: none"> • "DO NOT OPERATE" tag • Standard tool kit • Magnetic piston comparator 		<ul style="list-style-type: none"> • Place barriers around the perimeter of the work area
	1 person		

6 - Procedure

- Position the machine on a flat and firm surface, clear of obstructions (beware of power lines). Mark out the work area
- Lift the arm to access the ring's screw.
- Switch off the ignition and remove the ignition key.
- Place a do not operate tag at the start/stop switch location to inform personnel that the equipment is being worked on.



Tightening the chassis / Slew ring :

- Check the tightening torque on the 18 screws: 215 N.m (159 ft.lbf).

These screws can be accessed by opening the side of the chassis.



Tightening the turntable / Slew ring :

- Check the tightening torque on the 18 screws: 215 N.m (159 ft.lbf).

Lift the boom to access the screws.

For the non-accessible screws under the support and under the hoses, check the tightening using a flat spanner.



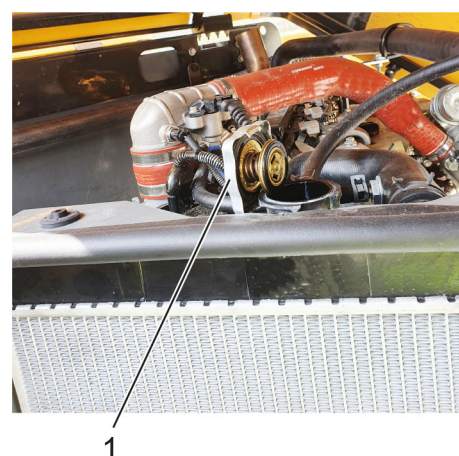
6 - Procedure

- Position the machine on a flat and firm surface, clear of obstructions (beware of power lines).
- Put the machine in stowed position, boom and arm fully retracted and lowered.
- Restrict access to the area (restricted access sign).
- Stop the engine and leave the coolant to reach room temperature.
- Pivot the engine compartment.



- Remove the plug from the radiator (1) in order to fully drain the coolant liquid.

N.B.-:-GENTLY UNSCREW THE RADIATOR PLUG TO RELEASE THE PRESSURE.



1 - Concerned machines

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Means of protection to be used when implementing the range

	Appropriate workwear		Gloves
	Safety shoes		

4 - You will need

	<ul style="list-style-type: none"> • "DO NOT OPERATE" tag • Personal protective equipment • Standard tool kit 		<ul style="list-style-type: none"> • Place barriers around the perimeter of the work area
	1 person		

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Means of protection to be used when implementing the range

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	Safety shoes		

4 - You will need

	<ul style="list-style-type: none"> • "DO NOT OPERATE" tag • Personal protective equipment • Grease brush 		<ul style="list-style-type: none"> • Place barriers around the perimeter of the work area
	1 person		

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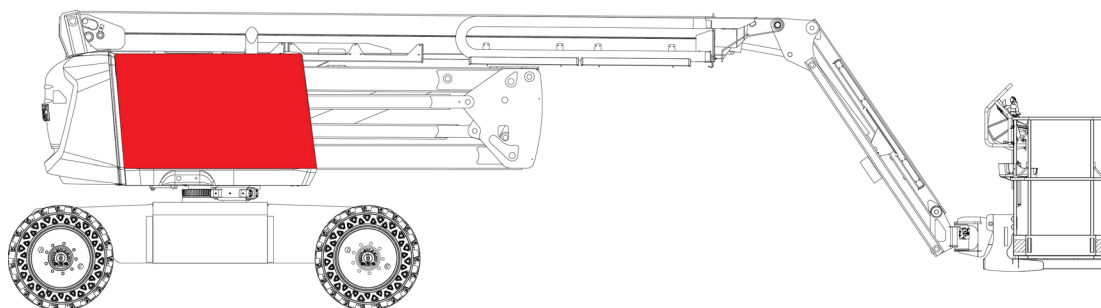


- Beware of the risk of burns; the hydraulic system operates at high temperatures.

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3 - Risk prevention

Means of protection to be used when implementing the range

	Appropriate workwear		Gloves
	Safety shoes		

E - Electric and hydraulic diagrams

N.B.:-TO ENSURE THAT YOU ALWAYS HAVE THE LATEST VERSION OF OUR ELECTRICAL AND HYDRAULIC DIAGRAMS, PLEASE LOG ON TO OUR WEBSITE : [HTTPS://WWW.E-TECHNICAL-INFORMATION.COM](https://www.e-technical-information.com)

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