

# Spare parts

## PALMS HYDROPACK

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**SAFETY**

**Follow all safety instructions listed in the crane and trailer user manuals!**

**Follow all local workplace safety and environmental regulations!**

**WARNING! Continuous exposure to noise may cause hearing problems and even a loss of hearing!**



**DANGER! GASOLINE AND OIL!**

**WARNING! HOT SURFACES!**



**STARTING**

**IDENTIFICATION**

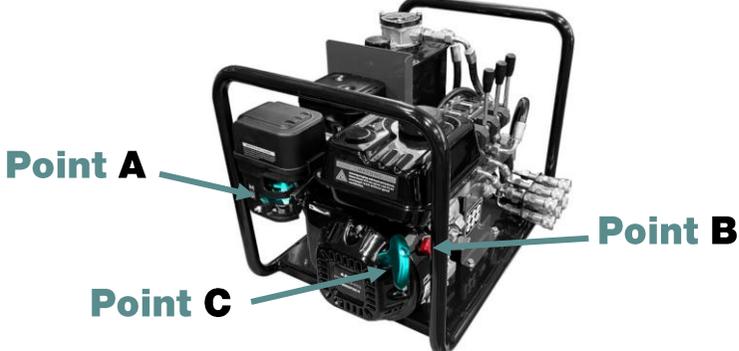
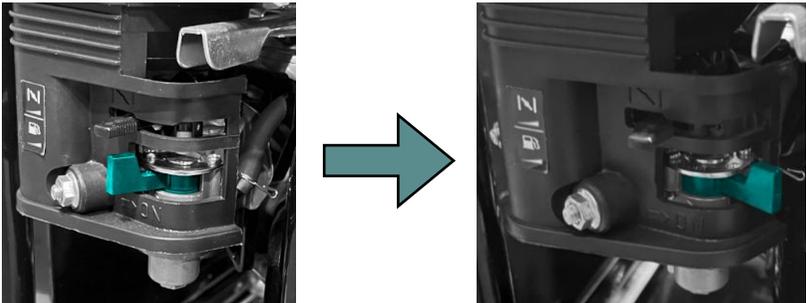
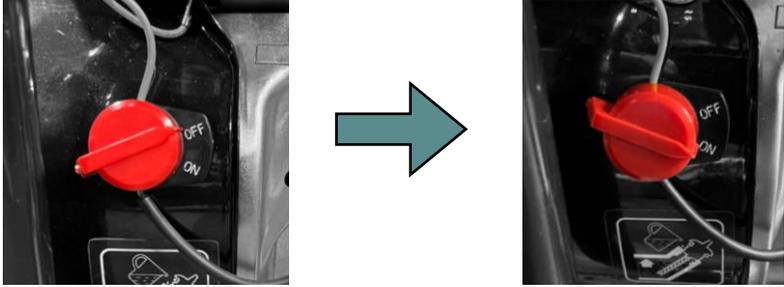
**Identify whether you have a switch-start or key ignition version.**

**Switch-start**



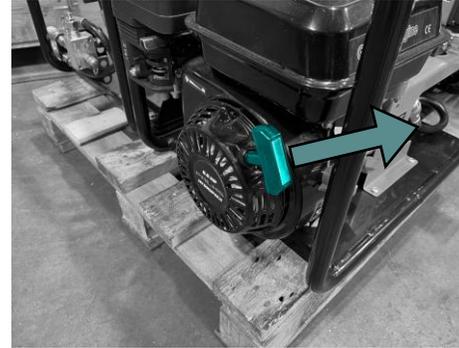
**Key ignition**



<b>SWITCH-START HYDROPACK STARTING</b>	
<b>Identify control points</b>	 <p>Point A</p> <p>Point B</p> <p>Point C</p>
<b>Open fuel line</b> <b>Point A</b>	
<b>Turn switch to ON</b> <b>Point B</b>	

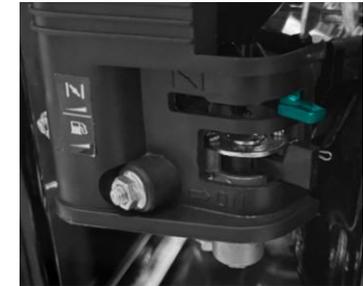
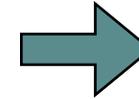
**Pull the handle to start the engine**

**Point C**



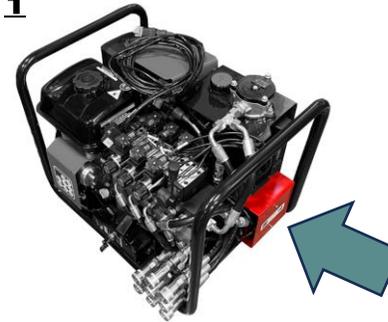
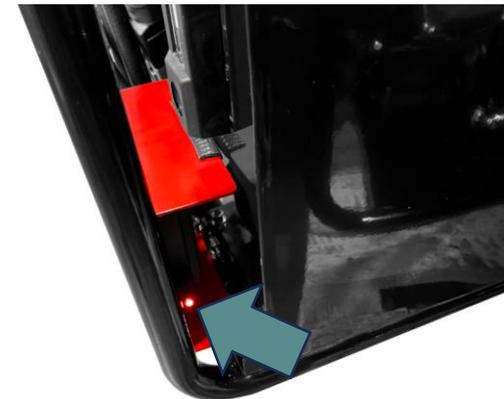
**Open air inlet**

**Point A**



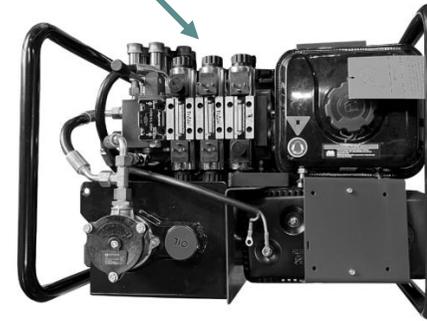
**KEY START HYDROPACK STARTING**

**Check if your hydropack has a battery disconnect switch.**  
**- If yes: Toggle it to the ON position (the light on the button is illuminated).**  
**- If no: Proceed to the next step.**

**1****2****3**

**Identify control points**

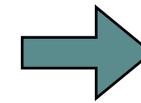
**Point B**



**Point A**

**Open fuel line**

**Point A**



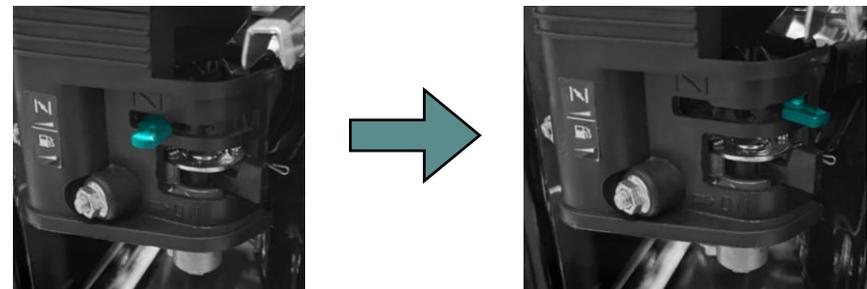
**Turn key from OFF to START.  
If the engine has started, release key from START to ON  
position.**

**Point B**



**Open air inlet**

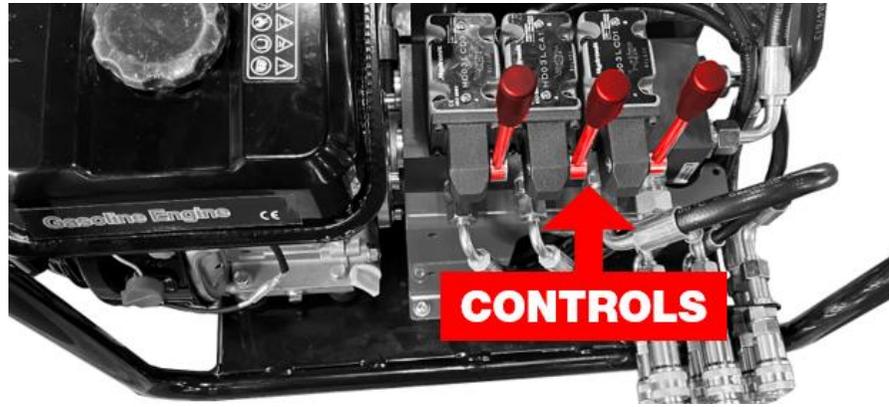
**Point A**



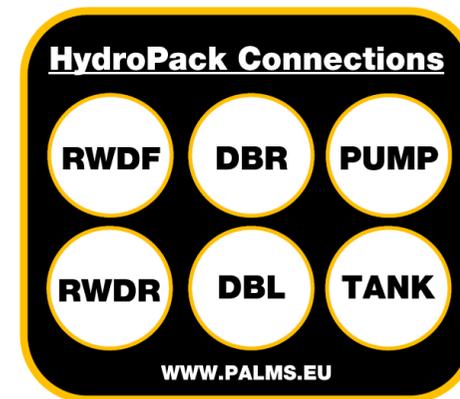
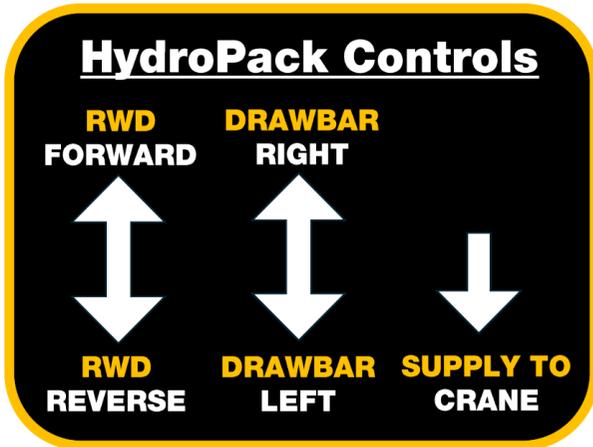
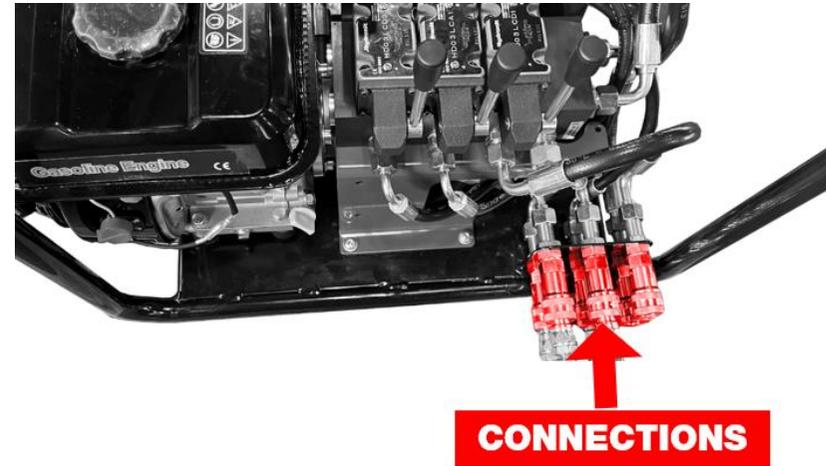
**CONTROLS AND CONNECTIONS**

**MECHANICAL CONTROLS WITH ROBSON DRIVE**

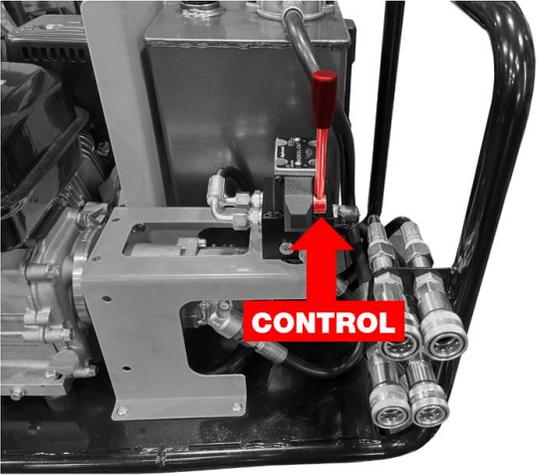
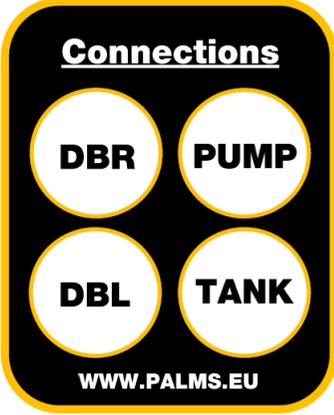
**CONTROLS**



**CONNECTIONS**

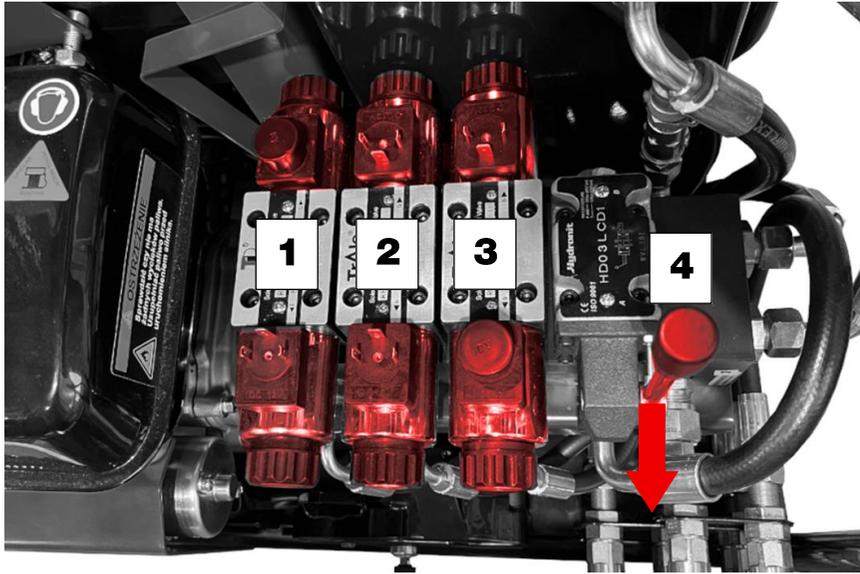


**NOTE! Follow hose markings!**

<b>MECHANICAL CONTROLS WITHOUT ROBSON DRIVE</b>	
<b>CONTROLS</b>	<b>CONNECTIONS</b>
	
	 <p><b>NOTE! Follow hose markings!</b></p>

**ELECTRONIC CONTROLS**

**CONTROLS**



- 1- **Robson Drive (Electronic)**
- 2- **Drawbar turning (Electronic)**
- 3- **Winch (Electronic)**
- 4- **Supply to crane (Mechanical)**

**CONNECTIONS**



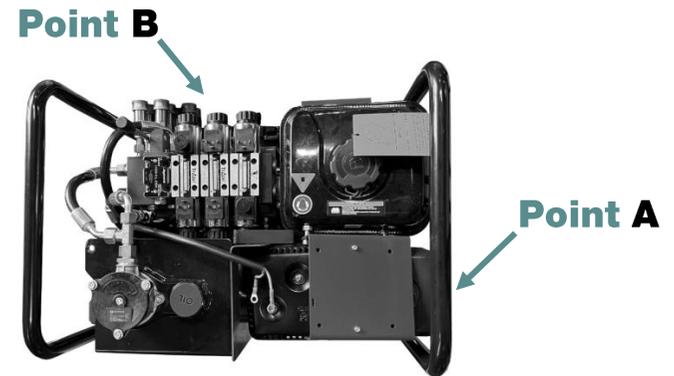
**NOTE! Follow hose markings!**

ELECTRONIC REMOTE CONTROLS		
<p><b>IMPORTANT! MAKE SURE THAT HYDROPACK'S PLUG IS CONNECTED TO YOUR VEHICLE!</b></p>		
DRIVE	DRAWBAR	WINCH (PALMS)
		
<p><b>Use switch to activate Robson drive system.</b></p> <p><b>Use vehicles brakes or drive switch to stop robson drive.</b></p>	<p><b>Switch to turn drawbar left or right.</b></p> <p>Read forest trailer user manual for information about safety and drawbar locking pin.</p>	<p><b>Remote control to move winch IN/OUT.</b></p> <p>Remote control will turn off after not being used for some time.</p> <p>Remote control will turn on again, when IN/OUT buttons are pressed.</p>
DUMPER BOX		
<p>To use dumper box:</p> <ul style="list-style-type: none"> <li>- Fix drawbar in straight position with a locking pin.</li> <li>- Connect dumper box tilting hoses instead of drawbar turning hoses (DBR and DBL).</li> <li>- Use drawbar controls for dumper trailer.</li> </ul>		

<b>TURN OFF THE ENGINE</b>	
<b>SWITCH-START HYDROPACK TURN OFF</b>	
<p><b>Identify control points</b></p>	
<p><b>Turn switch to OFF</b> <b>Point B</b></p>	
<p><b>Turn off fuel and air supply</b> <b>Point A</b></p>	

**KEY START HYDROPACK TURN OFF**

**Identify control points**



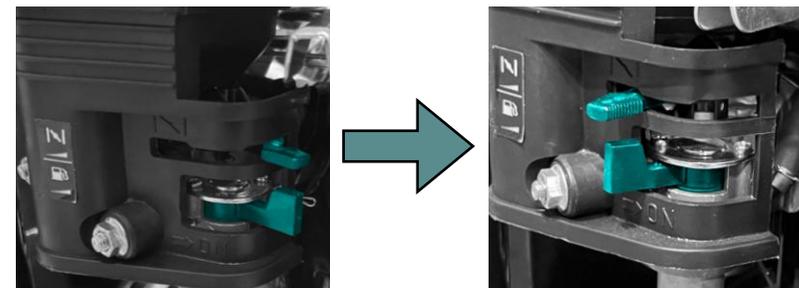
**Turn key from ON to OFF.**

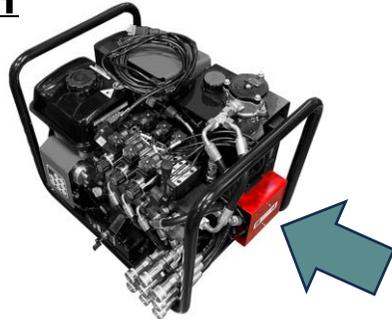
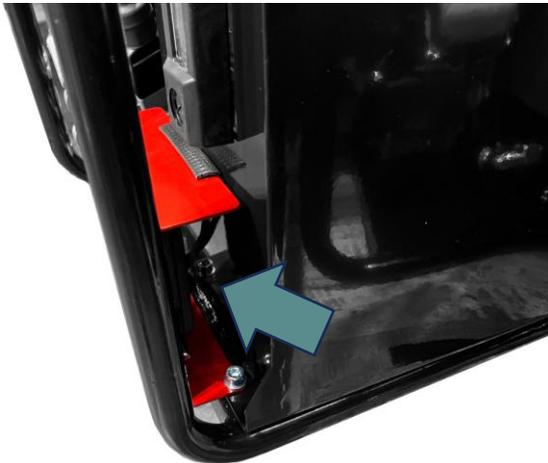
**Point B**

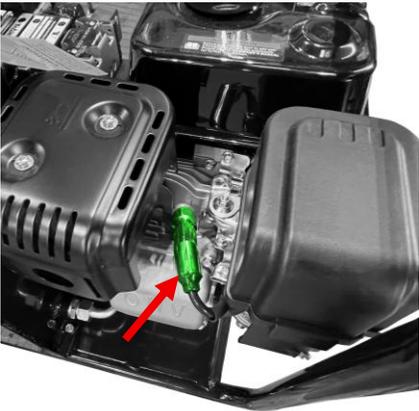
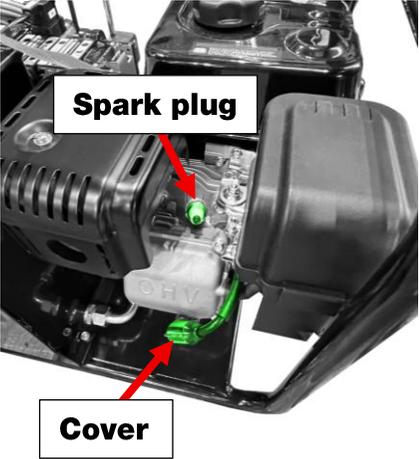


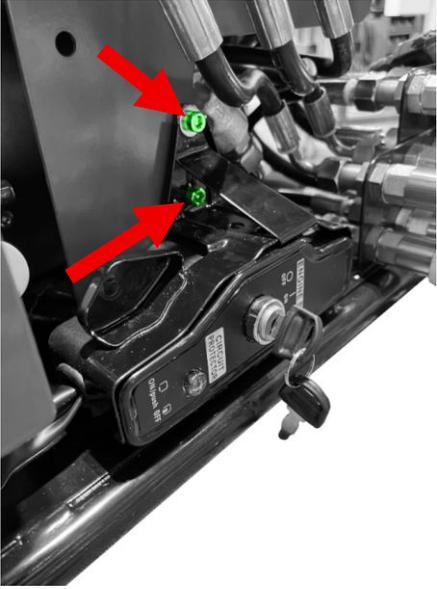
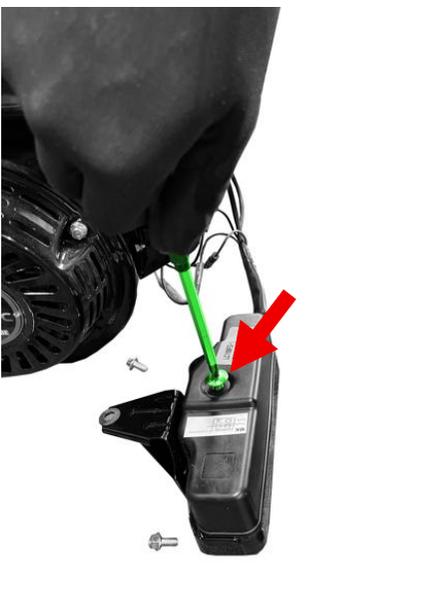
**Turn off fuel and air supply**

**Point A**



<p><b>If your hydropack has a battery disconnect switch, turn it OFF to prevent battery drain.</b></p> <p><b>The indicator light is off when the battery disconnect switch is in the OFF position.</b></p>	<p><b>1</b></p> 	<p><b>2</b></p> 
	<p><b>3</b></p> 	

<b>MAINTENANCE</b>			
<b>SPARK PLUG REPLACEMENT</b>			
<b>STEP 1</b>	<b>STEP 2</b>	<b>STEP 3</b>	<b>STEP 4</b>
<p>Identify the spark plug cover.</p>	<p>Pull the cover off and identify the spark plug.</p>	<p>Unscrew the spark plug</p>	<p>Replace if needed with another <u>F7RTC</u> spark plug.</p>
			

<b>FUSE REPLACEMENT</b>			
<b>In case of starting problems, check the fuse.</b>			
<b>STEP 1</b>	<b>STEP 2</b>	<b>STEP 3</b>	<b>STEP 4</b>
<p>Identify the ignition switch control box and unscrew it from the engine. Ignition switch control box placement varies depending on configuration.</p>	<p>Remove rear cover</p>	<p>Remove fuse cover</p>	<p>Check and replace if needed with another same grade (5 A) fuse.</p>
			

**WINCH CONTROL BATTERY REPLACEMENT**

**APPLIES ONLY TO PALMS WINCH CONTROL**

**STEP 1**



**STEP 2**



**STEP 3**



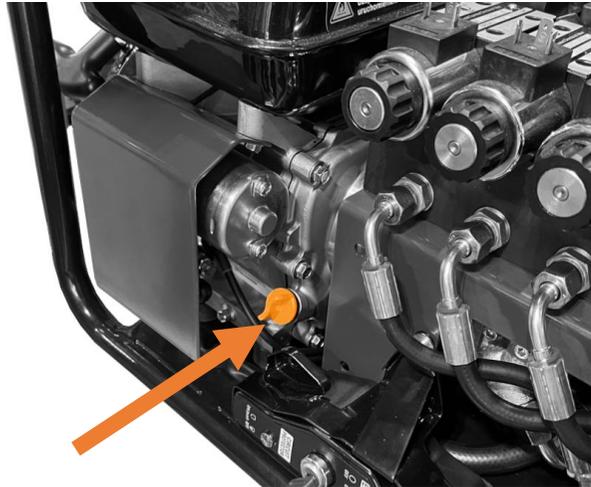
**STEP 4**



**ENGINE OIL**

**USE SAE 10W-30 OIL (LIKE ADDINOL MV 1034).**

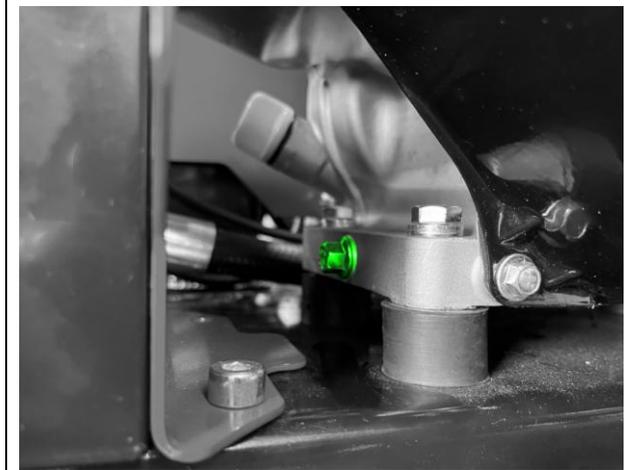
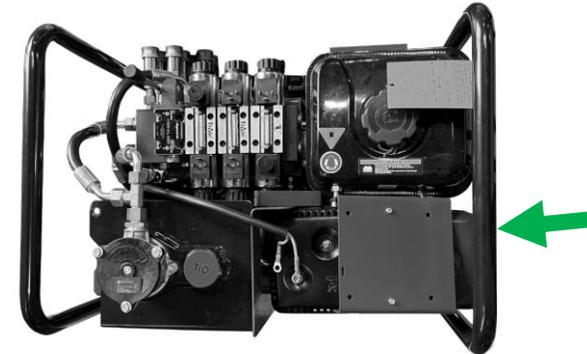
**OIL PLUG / FILL PORT LOCATION**



**DIPSTICK FOR MEASURING OIL LEVEL**



**OIL DRAIN PLUG LOCATION**



**AIR FILTER ELEMENT LOCATION**

**STEP 1**



**STEP 2**

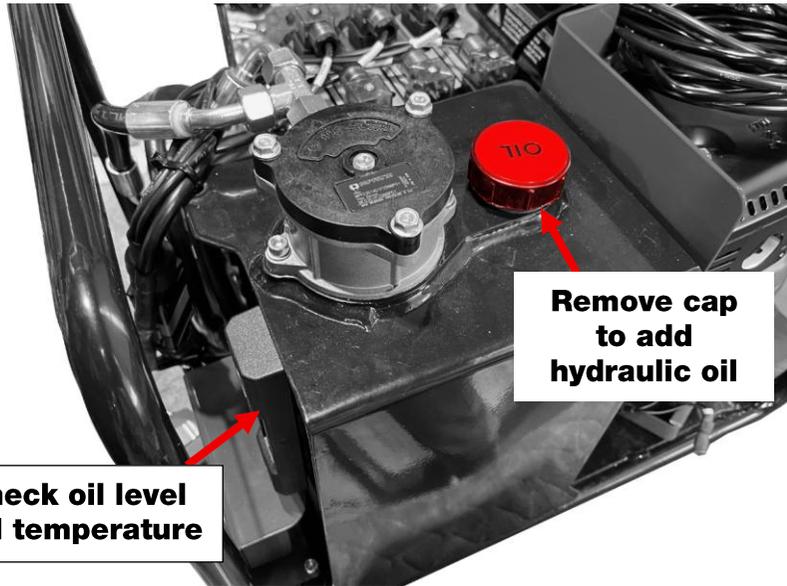


**STEP 3**

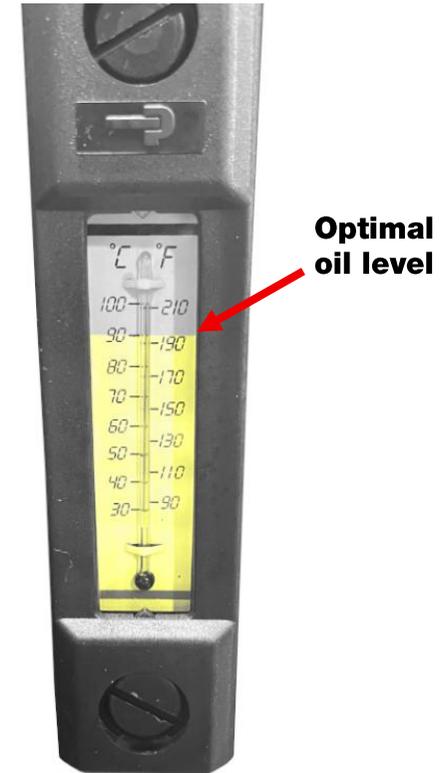


**NOTE! AIR FILTER COVER FASTENING VARIES DEPENDING ON CONFIGURATION.**

**HYDRAULIC OIL**

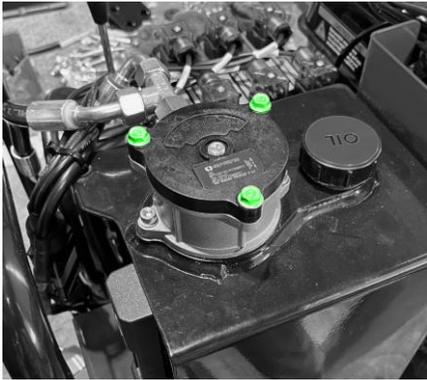


NOTE! Check forest crane user manual for information about hydraulic oil grade and temperature.



**HYDRAULIC OIL FILTER ELEMENT LOCATION**

**STEP 1**



**STEP 2**



**STEP 3**



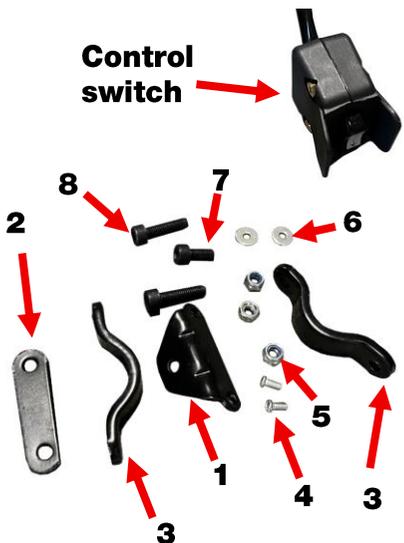
**STEP 4**



**ASSEMBLY**

**CONTROL SWITCH MOUNT**

Applies to electrically controlled drawbar steering and/or RWD drive controls.

STEP 1	STEP 2	STEP 3	STEP 4
 <p>Control switch</p>	 <p>Control switch</p>		