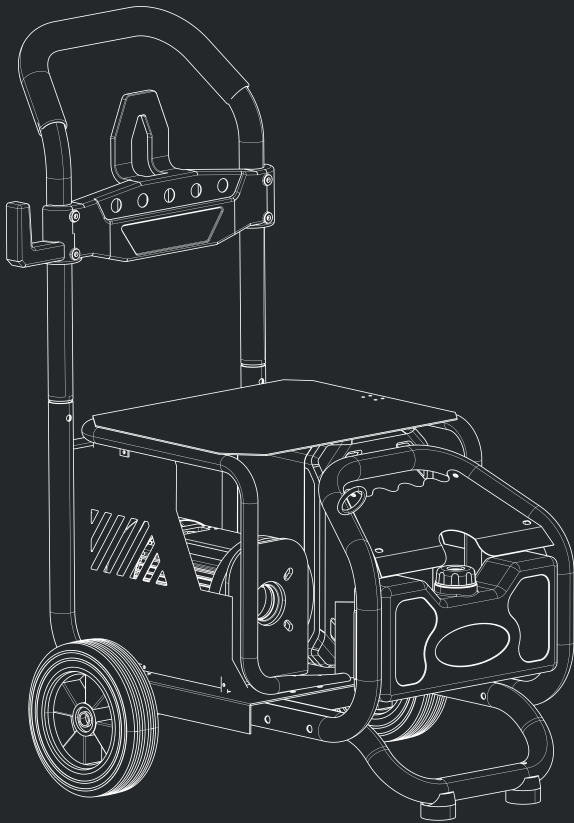




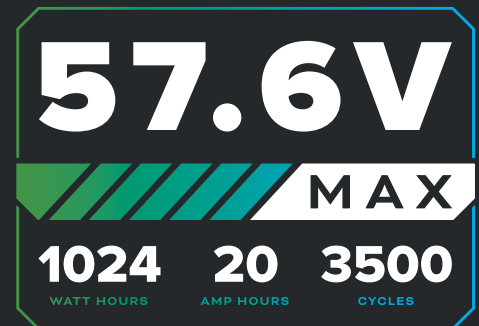
# OPW480EV

2200 PSI 2.4 GPM 57.6V LI-ION POWERED  
PRESSURE WASHER

## USER MANUAL



 **LiFePO<sub>4</sub>**  
ADVANCED LI-ION TECHNOLOGY



### DK2 USA WEST

3311 MEADE AVENUE STE  
E DOCK 13, LAS VEGAS, NEVADA  
89102 USA

### DK2 CORPORATE HEAD OFFICE

5330 MAINWAY  
BURLINGTON, ONTARIO  
L7L6A4 CANADA

### DK2 USA EAST

3750 SOUTH AVENUE  
NORTH UNIT, TOLEDO, OHIO  
43615 USA

# WARRANTY

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**PLEASE DO NOT RETURN TO THE STORE**

**YOU HAVE A 1-YEAR WARRANTY AND DK2 WILL REPLACE A DEFECTIVE PART FOR FREE. CALL US AT 1-888-277-6960 FOR FAST WARRANTY PARTS AND QUESTIONS.**

## **WHAT IS COVERED – 1-YEAR LIMITED WARRANTY INCLUDED**

DK2 Inc. warrants to the original purchaser that product will be free and clear of manufacturing defects in workmanship and materials under normal use and service for a period of one (1) year from the date of the original purchase. If within one (1) year from the original date of purchase this product fails due to defect in material or workmanship, DK2 Inc. will repair, replace, or supply any covered defective part at our option. DK2 Inc. is 1-year parts only warranty no labor.

Upon expiry of one (1) year, DK2 Inc. will have no further liability related to the product. DK2 Inc. does not authorize any party, including its authorized distributors or dealers, to offer any other warranty on behalf of DK2 Inc.

## **THIS WARRANTY DOES NOT COVER OR APPLY TO:**

- a) Damage to the product due to misuse, mishandling and abuse
- b) Improper installation, maintenance and storage
- c) Expendable parts such as nuts and bolts, pins and springs, wiring and switch components, hydraulic hoses and fittings, cutting teeth, cutting chains, cutting blades, throttles, belts and tires.
- d) Normal wear and tear
- e) Consequential damage & incidental damages such as damage to persons or property

## **PROCEDURE FOR OUTDOOR POWER EQUIPMENT WARRANTY**

Within the one (1) year warranty period, the purchaser of the product can CALL **1-888-277-6960** or contact us on **www.dk2.com**. Notify us of the claimed defect and provide proof of original purchase. At this time the validity of the claim will be determined, and if approved replacement parts will be issued. No returned product will be accepted under warranty unless accompanied by an RGA# issued by DK2 Inc.

## **DAMAGED FREIGHT**

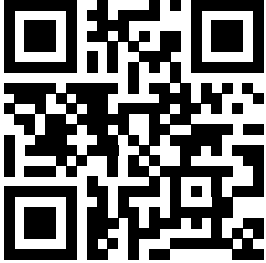
Damage to your product caused by freight mishandling is NOT covered under warranty. If your freight arrives damaged, REFUSE it. **Inspect your product when it arrives**, otherwise if you accept it, you will be responsible for filing any freight claims with the delivery company. DK2 Inc. warranty excludes damage to product.

## **RESOLUTION FOR A DEFECTIVE PRODUCT.**

Call us at 1-888-277-6960 between 8am-4pm Monday to Friday EST.

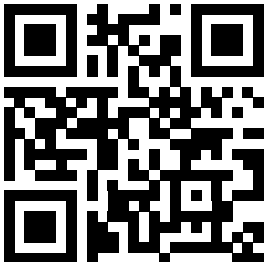
## ONLINE RESOURCES

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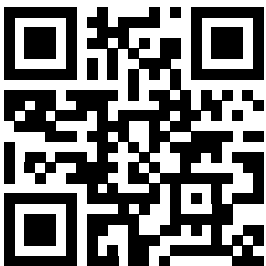
### LEARN MORE ABOUT YOUR PRODUCT

Visit your product's web page by visiting [detailk2.com/shop-battery-power-equipment/p/opw480ev-k](https://detailk2.com/shop-battery-power-equipment/p/opw480ev-k) or scan the QR code on the left.



### PURCHASING REPLACEMENT PARTS

In need of replacement parts? visit [detailk2.com/shop-parts](https://detailk2.com/shop-parts) or scan the QR code on the left.



### VIEW THIS USER MANUAL ON YOUR PHONE

Scan the QR code on the left to view this product's user manual on your mobile device.

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# TECHNICAL SPECIFICATIONS

<b>MODEL NUMBER</b>	<b>OPW480EV</b>
<b>BATTERY</b>	57.6V Max, 1,024Wh, 20Ah LiFePO4
<b>MOTOR</b>	2,000W (4,000W Max) 3,500 RPM cordless brushless EV-grade motor
<b>TORQUE</b>	4.1 ft/lb (5.5 Nm) rated 18.4 ft/lb (25 Nm) peak
<b>CHARGER</b>	120V AC/DC 200W
<b>WHEELS &amp; TIRES</b>	Never-flat
<b>PUMP</b>	3-piston axial cam
<b>MAX PRESSURE</b>	2,200 PSI (150 Bar)
<b>MAX FLOW RATE</b>	2.4 GPM (9.0 LPM)
<b>DIMENSIONS</b>	29.5" (L) x 31.5" (W) x 41.3" (H) 74.9 cm (L) x 80 cm (W) x 104.9 cm (H)
<b>WEIGHT</b>	104.6 lb (47.4 kg)
<b>SHIPPING DIMENSIONS</b>	26.8" (L) x 22.1" (W) x 18.5" (H) 68 cm (L) x 56 cm (W) x 47 cm (H)
<b>SHIPPING WEIGHT</b>	114.6 lb (52 kg)
<b>WARRANTY</b>	1-year limited

# **SECTION I • SAFETY**

## SAFETY CONVENTIONS

-  **DANGER!** This indicates a hazardous situation, which, if not avoided, will result in death or serious injury.
-  **WARNING!** This indicates a hazardous situation, which, if not avoided, could result in death or serious injury.
-  **CAUTION!** This indicates a hazardous situation, which, if not avoided, may cause minor or moderate injury.











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### ADDITIONAL INFORMATION AND POTENTIAL CHANGES

We reserve the right to discontinue, change, and improve our products at any time without notice or obligation to the purchaser. The descriptions and specifications contained in this manual were in effect at printing. Equipment described within this manual may be optional. Some illustrations may not be applicable to your machine.

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## IMPORTANT SAFETY INFORMATION

-  **WARNING!** Read and understand the complete User Manual before assembling or using this product. Failure to comprehend and comply with warnings, cautions and instructions for assembly and operation could result in serious injury or death. 
-  **WARNING!** Do not permit children to operate this equipment at any time. Do not permit others that have not read and understood the complete User Manual to operate this equipment. Operation of power equipment can be dangerous. It is the sole responsibility of the operator to understand the assembly and safe operation of this product.
-  **DANGER! INTENDED USE:** Do not use this machine for any purpose other than pressure washing, for which it was designed. Any other use is unauthorized and may result in serious injury or death.
-  **DANGER! PERSONAL PROTECTIVE EQUIPMENT:** When operating this machine, it is essential that you wear safety gear including goggles or safety glasses, steel-toed shoes and tight-fitting gloves (no loose cuffs or draw strings). Always wear ear plugs or sound-deafening headphones to protect against hearing loss when operating this pressure washer.    
-  **CAUTION!** Do not wear loose clothing or jewelry that can be caught by moving parts of the machine. Keep clothing and hair away from all moving parts of the machine.

## SAFETY DECALS

Make sure all safety warning decals are attached and in readable condition.

Please call DK2 at **1 (888) 277-6960** if you need help replacing missing or defaced safety decals.



### **WARNING / ATTENTION**

**(EN) RISK OF FLUID INJECTION:** High pressure spraying can penetrate skin. **DO NOT** spray at people or animals. Turn water hose off when changing quick-connect tips. Make sure quick-connect tips are secured in quick-connect socket. **RISK OF BURNS: DO NOT** touch the motor. **RISK OF EYE INJURY:** Spray may propel objects. Always wear safety glasses. **RISK OF INJURY:** Gun kicks back. Hold with both hands. **DO NOT REMOVE THIS LABEL.**
















**(FR) RISQUE D'INJECTION DE LIQUIDE :** La pulvérisation à haute pression peut pénétrer la peau. **NE PAS** pulvériser sur des personnes ou des animaux. Débranchez le tuyau d'arrivée de l'eau lorsque vous changez les embouts à connexion rapide. Assurez-vous que les embouts à connexion rapide sont sécurisés dans une prise à connexion rapide. **RISQUE DE BRÛLURES : NE PAS** toucher le moteur. **RISQUE DE BLESSURE AUX YEUX :** Le jet peut propulser des objets. Portez toujours des lunettes de sécurité. **RISQUE DE BLESSURE :** Le pistolet rebondit. Tenez avec les deux mains. **NE PAS RETIRER CETTE ÉTIQUETTE.**

## SAFETY DEFINITIONS


The purpose of safety decals and symbols is to attract your attention to possible dangers. The safety symbols, and their explanations, deserve your careful attention and review in order to safely operate this machine. The safety warnings do not eliminate any danger, the purpose of these warnings is to bring awareness to the dangers of the machine. The instructions or warnings they give are not substitutes for proper accident prevention measures and care while using the product.





# GENERAL SAFETY INFORMATION


-  **WARNING! Keep guards in place** and in working order. Never operate the tool with any guard or cover removed. Make sure all guards are operating properly before each use.
-  **CAUTION! Remove adjusting keys and wrenches.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
-  **WARNING! To reduce the risk of injury,** keep children and visitors away. All visitors should wear safety glasses and be kept a safe distance from the work area.
-  **WARNING! Keep the area of operation clear of all persons,** particularly small children, and pets.
-  **CAUTION! Use the right tool.** Don't force tool or attachment to do a job it was not designed for. Don't use tool for a purpose not intended.
-  **DANGER! Dress appropriately.** Wear long pants and long sleeves. Do not wear loose-fitting clothing, neckties, or jewelry. These items can get caught and draw you into moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Also, wear protective hair covering to contain long hair.
-  **WARNING! Do not operate the equipment while barefoot or when wearing sandals or similar lightweight footwear.** Wear protective footwear that will protect your feet and improve your footing on slippery surfaces.
-  **CAUTION! Exercise caution to avoid slipping or falling.**
-  **WARNING! Always wear eye protection.** Following this rule will reduce the risk of serious personal injury.
-  **WARNING! Don't overreach or stand on a ladder, rooftop, or other unstable support.** Keep proper footing and balance at all times.
-  **CAUTION! Use only recommended accessories.** The use of improper accessories may cause risk of injury.
-  **CAUTION! Follow the maintenance instructions specified in this manual.**
-  **CAUTION! Check damaged parts.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged must be properly repaired or replaced by a qualified service center to avoid risk of personal injury.
-  **WARNING! Never leave tool running unattended. Turn power off.** Don't leave the tool until it comes to a complete stop.
-  **WARNING! Keep the motor and battery free of grass, leaves, or grease** to reduce the change of a fire hazard.
-  **CAUTION! Follow manufacturer's**


recommendations for safeloading, unloading, transport, and storage of machine.


 **CAUTION!** Be thoroughly familiar with controls. Know how to stop the product and bleed pressure quickly.


 **CAUTION!** Keep the tool dry, clean, and free from oil and grease. Always use a clean cloth when cleaning. Never use brake fluids, gasoline, petroleum products, or any solvents to clean tool.


 **WARNING!** Stay alert and exercise control. Watch what you are doing and use common sense. Do not operate the tool when you are tired. Do not rush.


 **DANGER!** Do not operate the product while under the influence of drugs, alcohol, or any medication.


 **CAUTION!** Check the work area before each use. Remove all objects such as rocks, broken glass, nails, wire, or string which can be thrown or become entangled in the machine.


 **WARNING!** Do not use tool if switch does not turn it off. Have the switch replaced by a qualified service center.

 **WARNING!** Before cleaning, repairing, or inspecting, shut off the motor and battery, ensure all moving parts have stopped and cooled down completely, and remove the battery AC cable.


 **CAUTION!** Avoid dangerous environment. Don't use in damp or wet locations or expose to rain. Keep work area well lit.


 **WARNING!** Do not operate around dry brush, twigs, cloth rags, or other flammable materials.

 **WARNING!** Risk of injection or injury - Do not direct discharge stream at persons.


 **CALIFORNIA PROPOSITION 65 WARNING!** This machine is constructed with material which is known to the State of California to cause cancer and birth defects or other reproductive harm. Read more at <https://www.p65warnings.ca.gov/>.


## SPECIFIC SAFETY RULES

 **DANGER!** Never direct water stream toward people or pets, or any electrical device.

 **CAUTION!** Before starting any cleaning operation, close doors and windows, clear the area to be cleaned of debris, toys, outdoor furniture, or other objects that could create a hazard.


 **WARNING!** Never pick up or carry machine while the engine is running.


 **WARNING!** Never start the machine if ice has formed in any part of the equipment.


 **DANGER!** Do not use acids, alkalines, solvents, flammable material, bleaches, or industrial grade solutions in this product. These products can cause physical injuries to the operator and irreversable damage to the machine.


 **CAUTION!** Always operate the


**machine** on a level surface. If the engine is on an incline, it could seize due to improper lubrication (even at the maximum lubricant level).


 **WARNING! High-pressure jets can be dangerous if subject to misuse.** The jet must not be directed at persons, animals, electrical devices, or the machine itself.


 **WARNING! Hold the trigger handle securely with both hands.** Expect the trigger handle to move when the trigger is pulled due to reaction forces. Failure to do so could cause loss of control and injury to yourself and others.

 **DANGER! Never attempt to make any adjustments while the motor or battery are running.**


 **WARNING! Protective covers must always cover rotating parts when the motor or battery is running.**


 **CAUTION! Check nuts and bolts** for looseness before each use. A loose bolt or nut may cause serious engine problems.


 **CAUTION! Before storing, allow the motor and battery to come to a complete stop, and allow them time to cool off completely.**

 **CAUTION! When servicing use only recommended replacement parts.** Use of any other parts may create a hazard or cause product damage.


 **CAUTION! ONLY use cold water.**

 **WARNING! Make sure minimum clearance** of 3 feet is maintained from combustible materials.

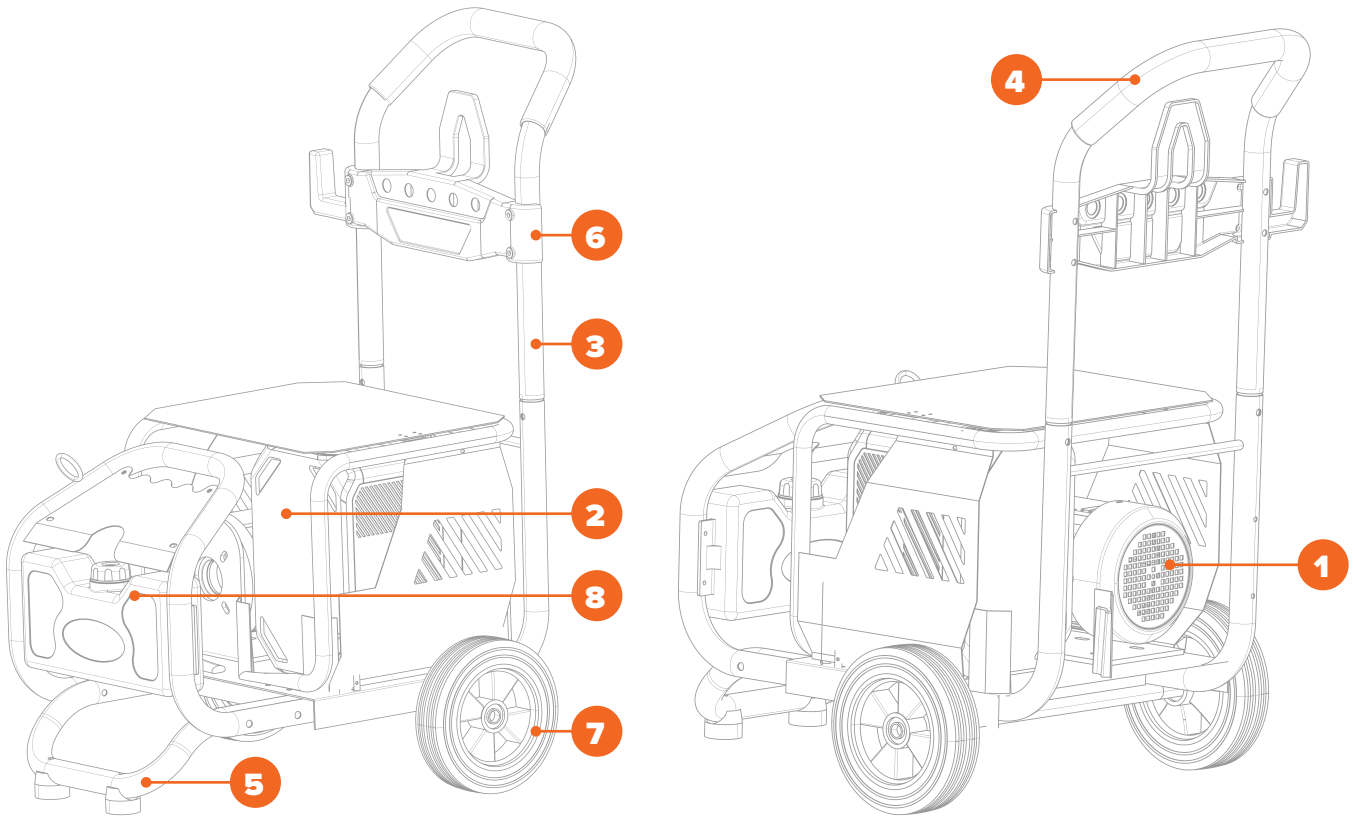
 **CAUTION! Never spray close to the surface** to be cleaned as you can damage the surface.

 **CAUTION! After stopping the motor and battery, always pull the trigger on the trigger handle to relieve stored pressure in the high-pressure hose.** Failure to do so could result in serious personal injury.

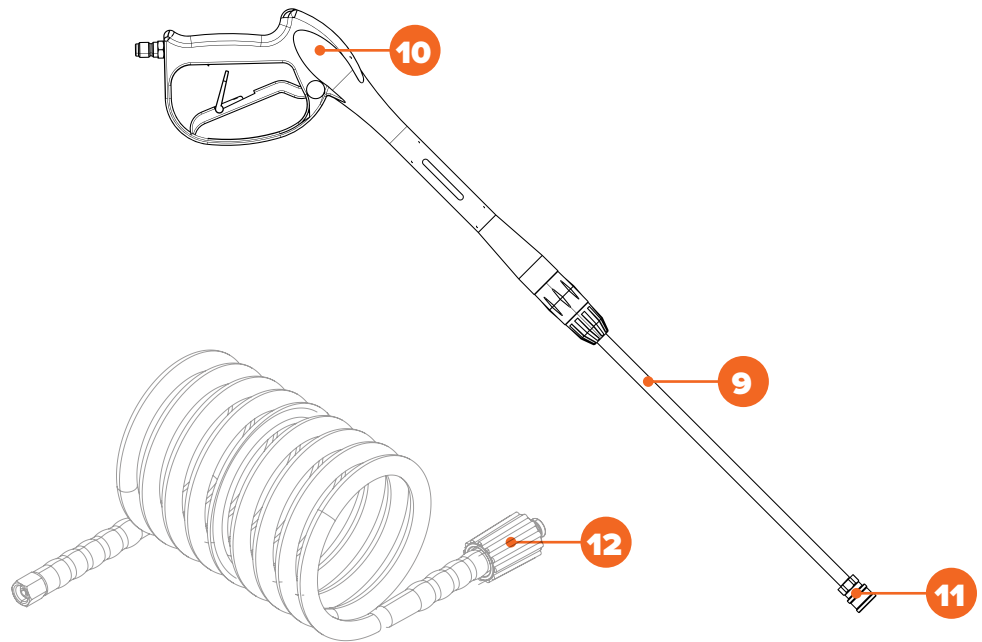
 **WARNING! For outdoor use only.**

 **WARNING! Ensure the high-pressure hose is properly connected before using the product.**

# GETTING TO KNOW YOUR MACHINE



- 1** Motor
- 2** Battery
- 3** Lower Frame
- 4** Handle
- 5** Frame Foot
- 6** Panel
- 7** Wheel
- 8** Soap tank
- 9** Lance
- 10** Spray Gun Handle
- 11** Nozzle
- 12** Hose



## **SECTION II • ASSEMBLY**

## CHECK THE PACKING

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Open and unpack all items, leave lots of working space, and inspect all parts.

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Upon inspection of parts, if you find any missing or damaged parts, please call DK2 at **1 (888) 277-6960** or contact **support@detailk2.com**. **Please do not return to the store.**

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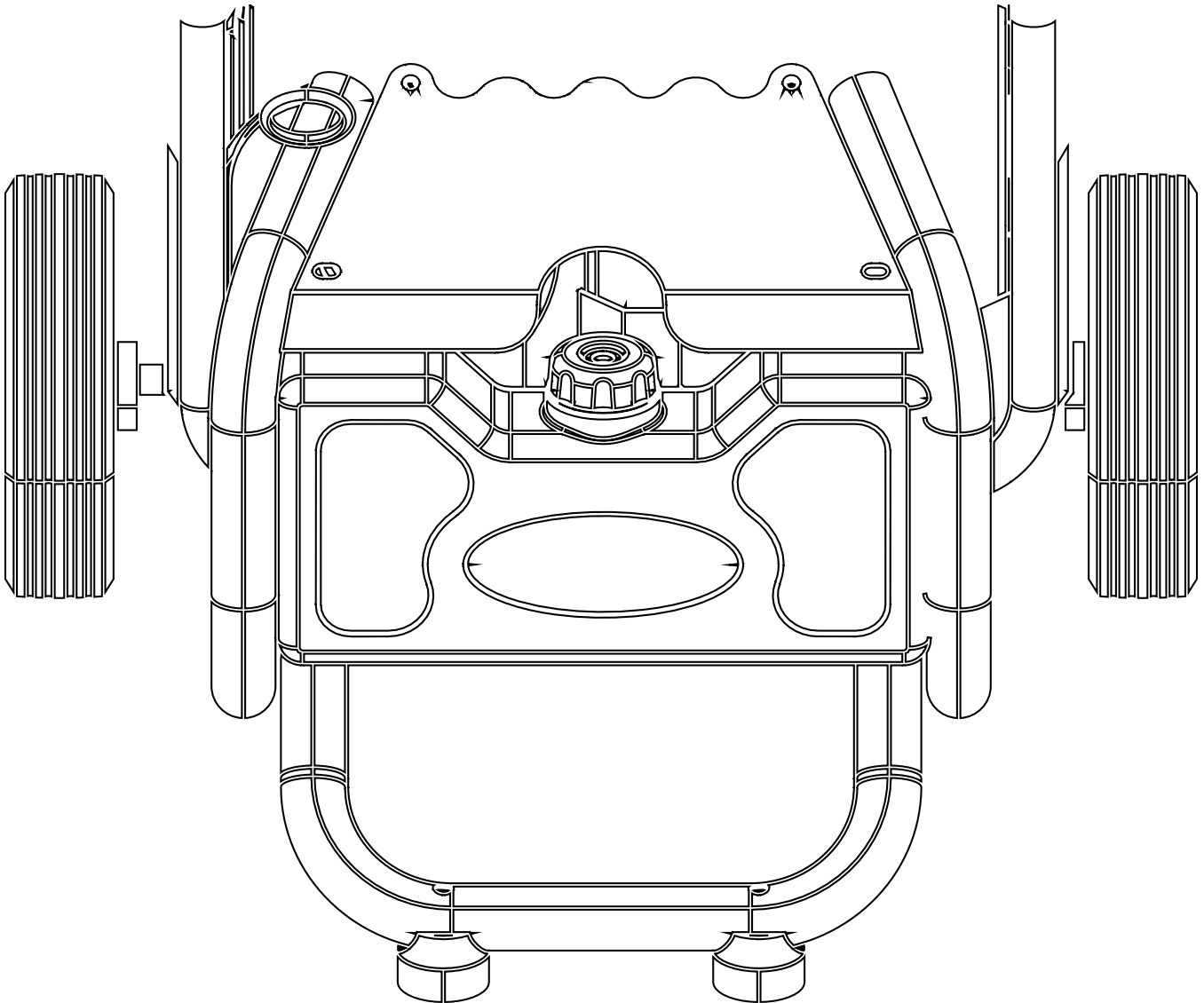
**NOTE:** Every machine is tested during production, there may be a few drops of water inside the pump assembly.

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## STEP 1: FRAME FEET

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Install the frame feet (14) to the lower frame (13) using the hardware provided.



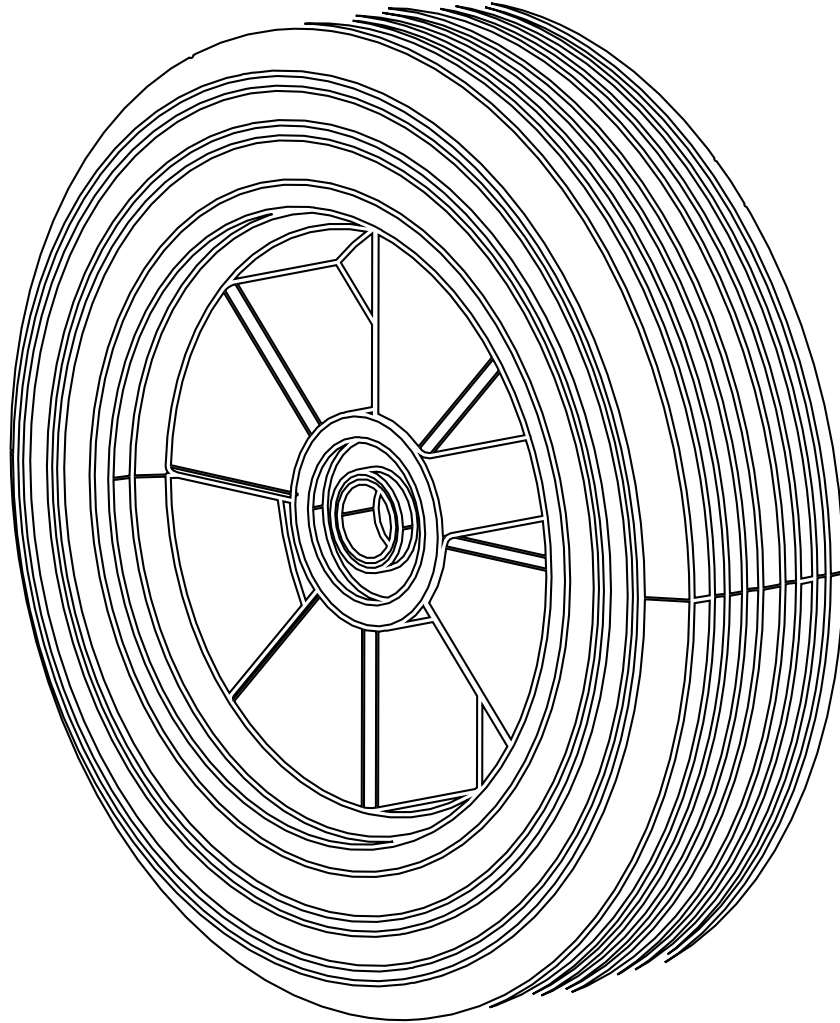
## STEP 2: WHEELS

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**NOTE:** Please ensure the machine is kept in an upright position for this step.

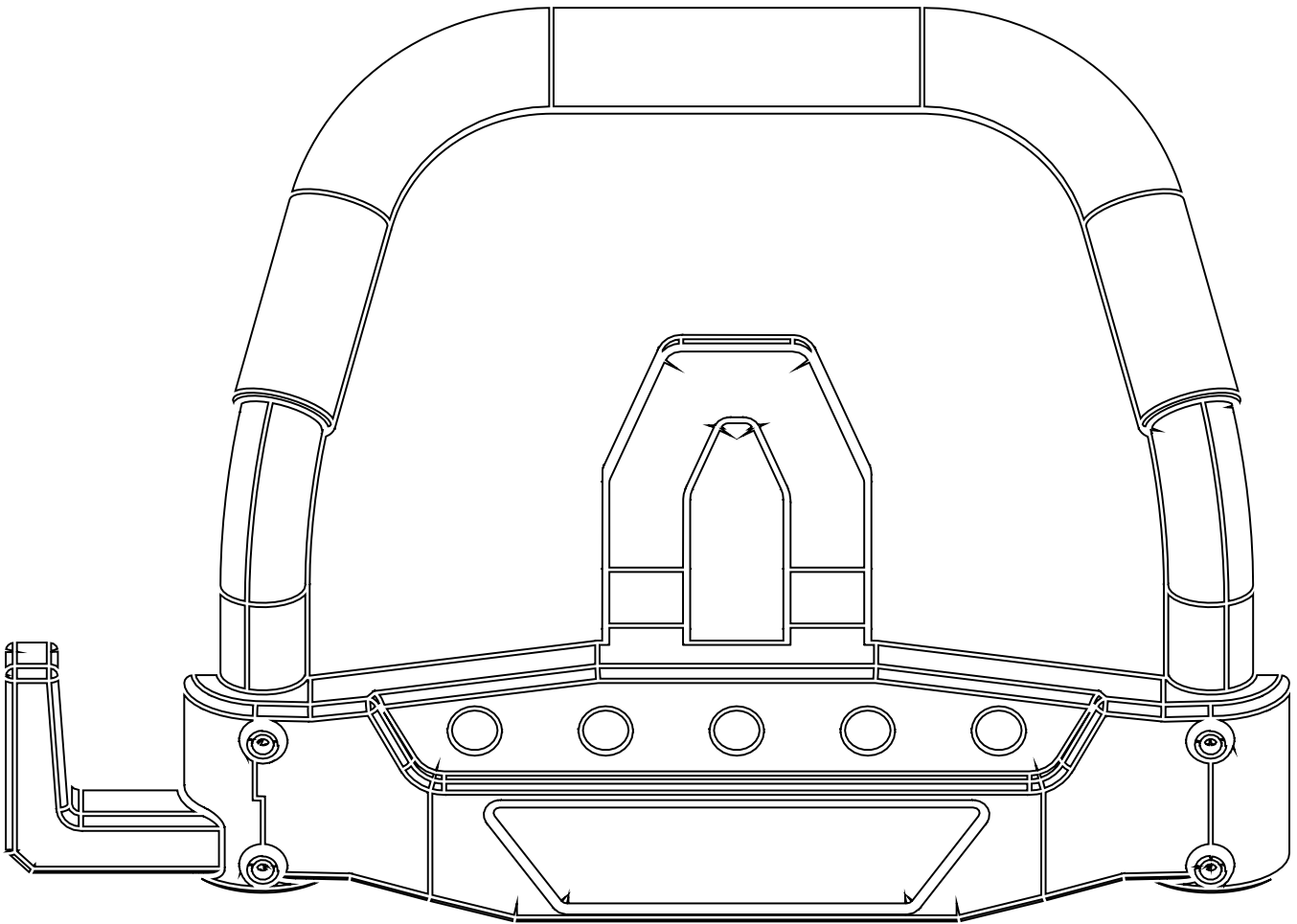
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Install the axle (10) into the axle support tube on the lower frame (7), tighten the bolt to secure in place. Fit a wheel (8,9) to the axle and secure using the locking nut provided, and repeat this process for the next wheel.

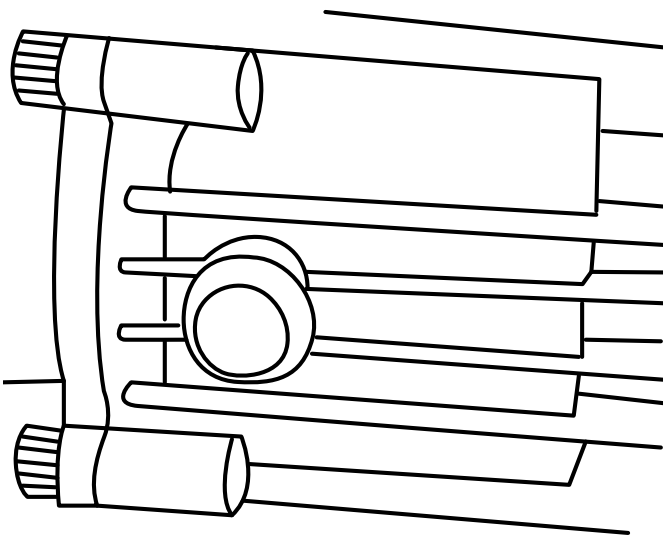


## STEP 3: NOZZLE PANEL

Install the nozzle panel (5) to the upper frame (20) and secure using the nuts and bolts provided.



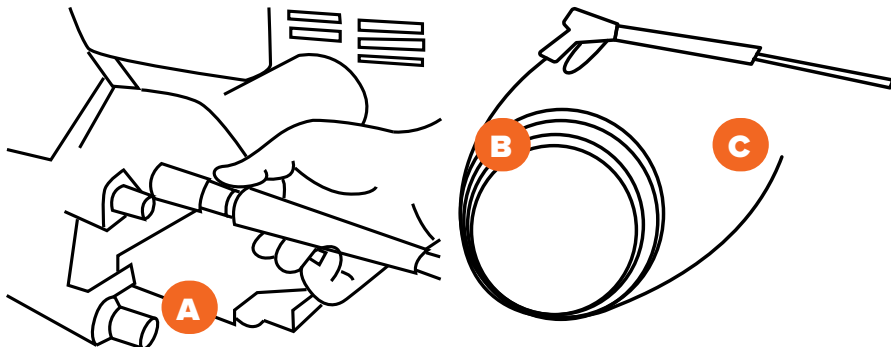
**WARNING!** Check the capacity of pump oil and ensure it is filled.





## STEP 4: HIGH PRESSURE CONNECTION

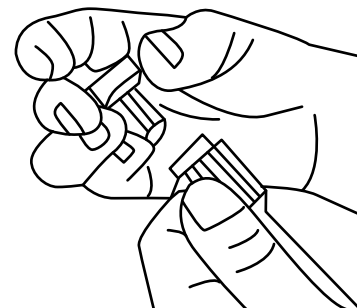
Connect the high-pressure hose (A) to the unit's high pressure outlet. Connect the high-pressure hose to the trigger (B). Insert the lance (C) into the trigger. Press firmly against the spring tension and twist the coupling into the locked position.



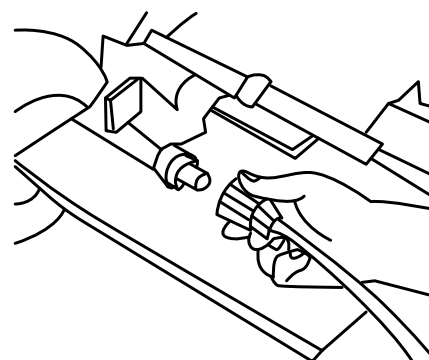
## STEP 5: NOZZLE & HOSE

To insert a nozzle, pull back the quick-connect at the end of the lance, insert the nozzle and release the quick-connect.

**!** **WARNING! Ensure the nozzle is securely inserted.** If it isn't, it can fly out and cause serious injury or damage to property.



Connect the hose to the water inlet connector.



## **SECTION III • OPERATION**

# OPERATING INSTRUCTIONS

**!** **DANGER!** Read and understand the complete User Manual before assembling or using this equipment! Failure to comprehend and comply with these warnings, cautions, and instructions for assembly and operation could result in serious injury or death.

**!** **DANGER!** Do not permit children to operate this equipment at any time.

**!** **DANGER!** Do not permit others that have not read and understood the complete User Manual to operate this equipment. Operation of the equipment can be dangerous. It is the sole responsibility of the operator to understand the assembly and safe operation of this equipment.

Please refer to *Section II • Safety* in this User Manual for an extensive list of warnings and precautions to follow prior to operating this equipment.

## WATER SUPPLY

### WATER SUPPLY FROM WATER MAIN

- Connect a water supply hose (not included) to the water inlet connection of the pressure washer.
- Turn on the water supply and pull the trigger until the water is continually flowing out of the nozzle.

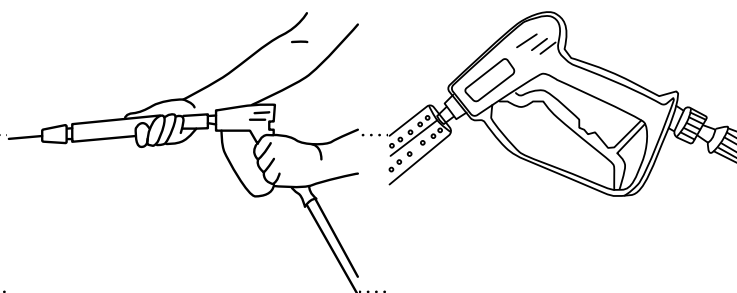
### WATER SUPPLY FROM A CONTAINER

- Unscrew the coupling part for the water inlet.
- Screw the suction hose with filter (not included) onto the water connection of the unit.
- Hang the filter in the container.
- Vent the unit before operation.
- Unscrew the high-pressure line at the high-pressure outlet of the unit.
- Switch on the unit and let it run until water is free of bubbles at the high-pressure outlet.
- Switch off the unit and screw on the high-pressure hose again

## BEFORE SPRAYING

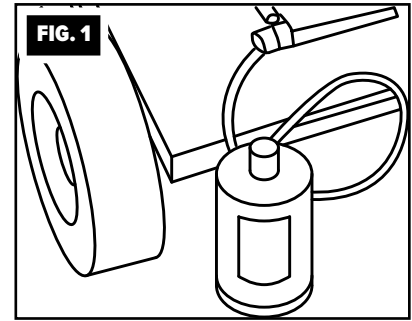
Pull the trigger to eliminate trapped air and wait for a steady flow of water to emerge from the spray nozzle.

**NOTE:** To prevent accidental operation, the trigger is fitted with a locking mechanism.



## USING THE DETERGENT

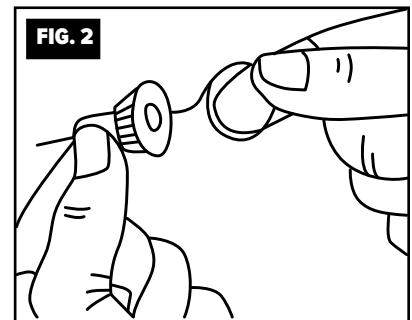
**(FIG. 1)** It is recommended to use good quality pressure washer detergent for use with this pressure washer. Please follow the instructions on the fluid container. Most automobile detergents are a combination of a detergent and wax solution. The viscosity (thickness) of the detergent will increase in cold weather. It is recommended that this type of detergent is diluted with water before filling the container. When using wash and wax combination solutions we recommend that they are diluted before use. As a general guide, we would recommend a dilution ratio of 50/50. However a trial and error process would determine the ideal dilution ratio for a particular detergent.



**NOTE:** A thick, viscous detergent will not flow freely from the detergent container and the residue from this can cause a blockage in the flow system. After using the detergent, the system should be flushed thoroughly using ample amounts of water. To activate detergent delivery, fit the black LOW PRESSURE nozzle to the end of the lance. Suction and mixing will occur automatically as the water flows through the pump.

## CLEARING BLOCKAGE

**(FIG. 2)** If at any time the flow rate stutters or shows inconsistency, release the trigger and switch OFF the machine. Squeeze the trigger to relieve any pressure and check the jet in the end of the lance for any blockage. If blockage is suspected, use some wire to clean inside the nozzle.



### HIGH-PRESSURE NOZZLES:



### DETERGENT NOZZLE:

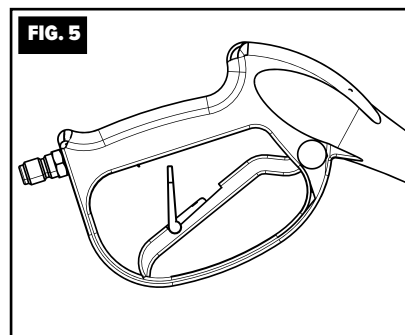
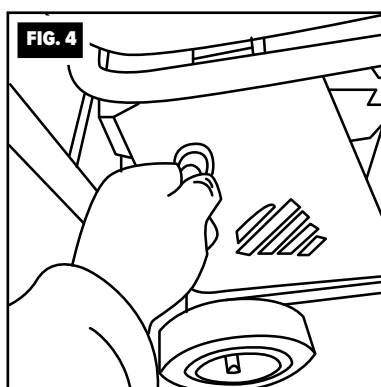
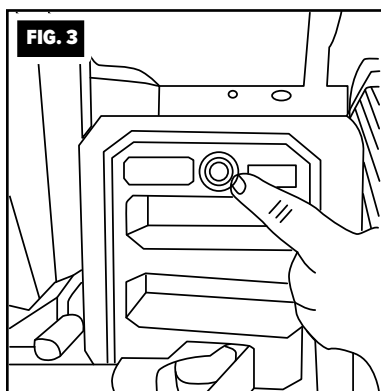


## STARTING THE MACHINE

1. Press the power button on the battery to turn on the power supply (**FIG. 3**).
2. Turn the switch key on the side of the battery and motor shroud (**FIG. 4**).

The machine will start up, with the trigger being operational (**FIG. 5**).

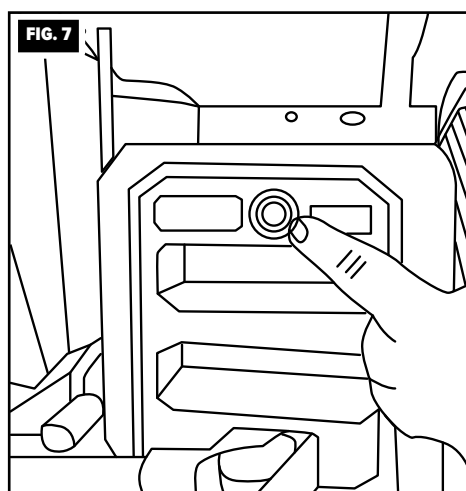
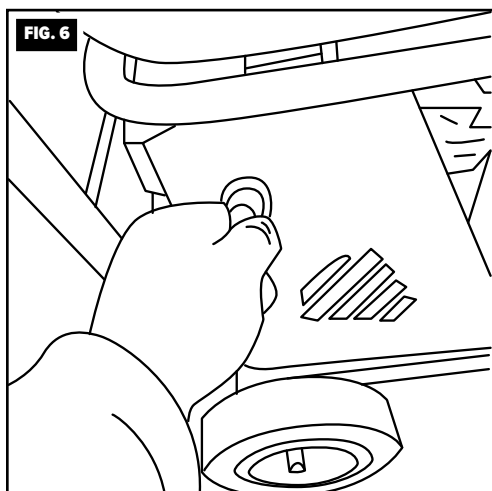
**NOTE:** Battery power level is shown on the battery, periodically check your battery power level.



## STOPPING THE MACHINE

1. Turn the switch key on the side of the battery and motor shroud to stop the motor (**FIG. 6**).
2. Press the power button on the battery to turn off the power supply (**FIG. 7**).

The machine will stop completely.




## **SECTION IV • MAINTENANCE**

## BEFORE EACH USE

---

 **WARNING!** Before performing maintenance on your machine, release any pressure and remove the water connection.

 **CAUTION!** Inspect your unit for any loose or damaged hardware. Ensure that all fastening hardware is properly tightened and secured before each use.

## REPLACEMENT PARTS

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Use only replacement parts that are supplied by DK2. Replacement parts of inferior quality may impair the effectiveness of the machine, and will cause your warranty to become null and void.

## MODIFICATIONS

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Modifying the machine in any way will void your warranty. All DK2 products are designed and manufactured with optimal performance and safety in mind and should not be modified.

## WATER SUCTION FILTER

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Check periodically to avoid clogging deposits in the machine.

## PUMP OIL CHANGE

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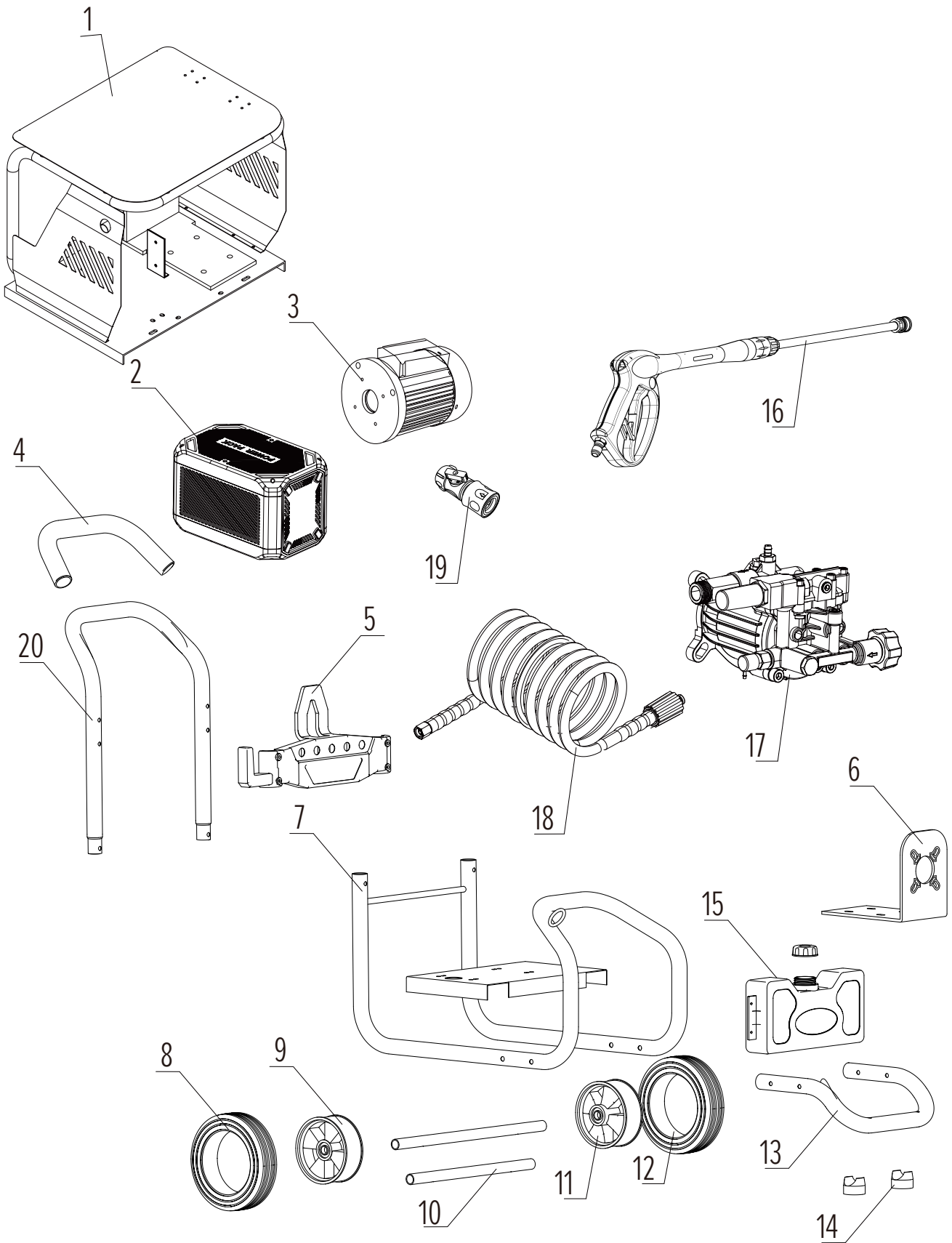
The pump on your machine uses either 15W40 or 15W30 non-detergent oil. It is important to use a non-detergent oil, as using an oil with cleaner (detergent) will foam up when agitated. It is recommended to fill your pump oil half way on the oil lens center line. On first use up to 20 hours, the oil will need to be changed, and after first use the oil should be changed every 100 hours.

1. Extract the oil from the pump
2. Put the used oil in a container so that it can be brought to a recycling facility to be cleaned and reused.
3. Secure the drain plug. Now it is safe to fill the pump using the oil fill opening. Secure the oil fill cap and you've successfully performed the pump oil change.

# **SECTION V • PARTS & SCHEMATICS**



# SCHEMATICS



# PARTS LIST

NO.	PART NO.	DESCRIPTION	NO.	PART NO.	DESCRIPTION
1	OPW480EV01H23	Motor and battery shroud	10	OPW480EV10H23	Axle
2	OPE100	Battery	13	OPW480EV13H23	Support frame
3	OPW480EV03H23	Motor	14	OPW480EV14H23	Foot pad
4	OPW480EV04H23	Handle casing	15	OPW480EV15H23	Detergent container
5	OPW480EV05H23	Utility panel	16	OPW480EV16H23	Metal lance
6	OPW480EV06H23	Motor bracket	17	OPW480EV17H23	Pump
7	OPW480EV07H23	Main frame	18	OPW480EV18H23	High-pressure hose
8	OPW480EV08H23	Wheel	19	OPW480EV19H23	Hose adapter
9	OPW480EV09H23	Tire			

\*Battery (2) sold separately **unless** kit model (OPW480EV-**K**) is purchased.



