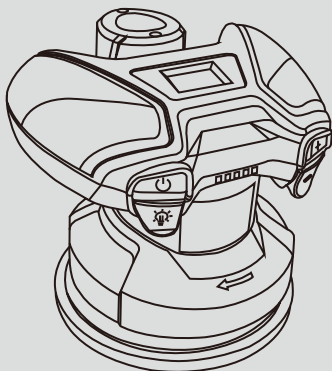


User Manual

12V Max Cordless Dual Random Orbital Waxer/Polisher



Model: PW12DC
/PW12CC

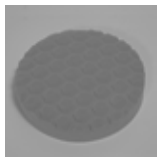
Troubleshooting

Problems	Causes	Solutions
The waxer/buffer will not turn on.	The forward/reverse rotation control is in locked position.	Putting it into rotation position
	Battery pack not installed properly.	Check battery pack installation.
	Battery is low.	Charge the battery.
	Faulty motor.	repair or replace motor.
Battery pack will not charge.	Battery pack not well inserted into charger.	Insert battery pack into charger until green LED turns off and appears again.
	Charger not plugged in.	Plug charger into a working outlet.
	Surrounding air temperature is too hot or too cold.	Move charger and battery pack to a surrounding air temperature between 40°F (4.5 °C) and 105 °F (40.5 °C).
The battery pack capacity is reduced.	If the battery pack is not used for a long time, the lithium ion is deintercalated.	Please charge the battery pack at least once every three months.
	Charge the battery in high/low temperature environment.	Please charge the battery in an environment of 41~77°F (5~25°C).
	Use a high current charger.	Please use a standard charger with 1~1.5A output.
Poor performance	Battery is low.	Charge the battery.
	Tool is overheating.	Turn off the tool and let it cool down to room temperature. Inspect and clean the ventilation slots.
	Too much wax on the applicator or pad.	Replace or clean the accessory.Ensure that too much polish is not applied onto the accessory.Remove a portion of wax and retry.
	Pad worn.	Replace with new one.
Unit shuts off abruptly.	Battery pack has reached its maximum thermal limit.	Allow battery pack to cool down.
	Out of charge.(To maximize the life of the battery pack it is designed to shut off abruptly when the charge is depleted.)	Place on charger and allow to charge.
Vibration or abnormal noise	Accessory not secured.	Ensure that the accessory is secured onto the foam pad and that the outer edge is drawn over the top of the pad.
	Loose screws.	Ensure that all fixing screws are fully tightened.

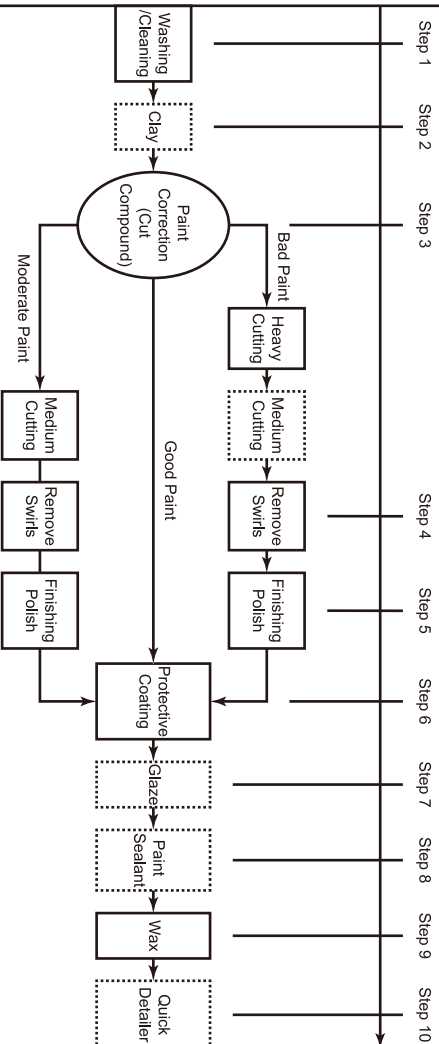
PW12DC Items Supplied

 Polisher Body ×1	 Battery Pack ×1	 Charger ×1	 DC Supply Plug ×1
 Velcro Connector ×3	 Coral Fleece Towel ×1	 Sandpaper ×10	 Wool Pad ×3
 Wave Foam Pad ×2	 Cover Tape ×1	 Flat Foam Pad ×2	 Microfiber Pad ×3
 Storage Bag ×1	 User Manual ×1		

PW12CC Items Supplied

			
Polisher Body ×1	Battery Pack ×1	Charger ×1	Velcro Connector ×3
			
Chenille Gloves ×1	Coral Fleece Towel ×1	Detail Brush ×5	Wool Pad ×3
			
Hex Foam Pad ×2	Cover Tape ×1	Flat Foam Pad ×2	Microfiber Pad ×3
			
Storage Bag ×1	User Manual ×1		

Detailing Flowchart



Note!

- Please choose projects to do according to the actual paint condition of the car body. For example: new cars usually do not need polishing; generally, there are only a few scratches on the body.
- The solid lines are the recommended projects, while the dotted lines are optional.
- Between step 2 and step 3, if the paint scratches have penetrated into the basecoat or metal body, you will probably need to sand and fill and correct the basecoat with paint before polishing.
- As stated earlier, you do not have to do and apply every single step if not necessary or if following an alternate route.

Steps	Project	Recommended RPM	Attachments to Prepare	Pads And Other Accessories	Purpose (Applicable Scenarios)	Lasts
Step 1	Washing/Cleaning	-	Neutral car cleaner, water	Pressure washer, towels	Remove obvious stains, bird droppings, dust, etc. from the body.	15-30 days
Step 2	Deilling (Clay Bar & Chemical	-	Chemical cleaner	Clay Bar	Remove iron powder, fly/ing paint, asphalt and other stubborn substances from the car body.	-
Step 3	Paint Correction (Sanding)	4000-5000	Water, rust remover,paint	Sandpaper	Remove rust, level the metal body and repaint.	-
	Paint Correction (Heavy Cut Compound)	3500-4000	Heavy cutting abrasive, cover	Heavy cutting pad(wool pad , hex logic cutting pad)	When the paint is oxidized or scratched and swifed up, Remove the deeper imperfections, scratches, scratches, oxides, micro scratches and restore the shine of the finish.	-
	Paint Correction (Medium Cut Compound)	3000-3500	Medium cutting polish, cover tape	Medium cutting pad(hex logic cutting pad, wave		-
Step 4	Remove Swifts	2800-3200	Swift remover	Low polishing pad(wave foam pad, flat foam pad)	Remove swifts left over from polishing.	-
Step 5	Finishing Polish	2800-3200	Fine polish/abrasive	Flat foam pad	Completely remove impurities and smooth the finish.	-
Step 6	Protective Coatings (Good Paint)	2800-3200	Surface cleanser, microfiber towel	Flat foam pad	Usually referred to as a ceramic coating, which deeply penetrates into the pores of the paint and goes on the paint to form a hard impermeable	2-5 years
Step 7	Glaze	2800-3200	Glazes	Flat foam pad	Glazes contain fillers and gloss enhancers which can condition and shine the foundation of your paint prior to applying any further layers of protectants.	6-12 months
Step 8	Paint Sealant	3200-3800	Sealant, Silica crystal	Flat foam pad	A sealant is an artificial form of protection synthesized with advanced nano-tech polymers that create a tightly bonded layer over the paint to repel incoming contaminants, water and UV rays from sticking to the surface.The best sealant is crystal	1-3 years
Step 9	Waxing and buffing	3000-4000	Camauba wax	Microfiber Finishing Pad	The natural oil from the camauba wax coats the surface and the pores of the paint to reveal the shine from the paint and act as a layer of protection from UV rays and airborne contaminants from sticking.	3-5 months
Step 10	Quick Detailer	2000-2500	Lubricant, spray wax or spray sealant	Flat foam pad	A quick detailer is a specially formulated lubricant, spray wax or spray sealant to pull off light contaminants from paint, add a light coat of shine and adds a high shine and durable protection.	It depends.

General Description

Thank you for purchasing a our product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance. The cordless waxer/polisher is specially designed for car owners and DIYers. Cordless polishing and waxing machine is widely used in home decoration and automobile. For example: sofa, wooden floor, car. It can be used for cleaning, polishing, glazing and waxing. In addition, the tool is also a good gift.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY DAMAGE OTHER ITEMS AND INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

Safety Warnings

- Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, nonskid safety shoes, hard hat, or hearing protection.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Be sure bonnet is snugly installed on pad.
- Keep hands and fingers away from rotating bonnet.
- Before turning the switch to the ON position, be sure the pad is free to revolve harmlessly.
- Inspect the bonnet frequently for wear, dirt or imbedded debris.
- Do not allow the power cord to contact the rotating bonnet as it may become quickly tangled around it. If this occurs, turn tool OFF and unplug the power cord before attempting to untangle the cord. If the cord is damaged, have it repaired or replaced at your local tool repair station.
- Never use a damaged or torn bonnet.
- Wear proper clothing, short sleeves, nothing loose or bulky, such as shop coat, etc.
- Do not turn tool on unless the polishing bonnet is against surface being polished.
- Be extremely careful when polishing around sharp or protruding objects on the car body.
- The product is mainly designed for polishing and waxing. Generally, it cannot be used as a sander.
- Use abrasive or rubbing compounds with caution. The abrasive nature of these products can damage painted surfaces.
- Before you decide to start your car project, please check the body paint. Incorrect operation may damage the body paint.
- Never polish the door handle, lamp and the edge of the body for a long time because it will damage the paint surface.
- Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- When battery pack is not in use, keep it away from other metal objects. Shorting the battery terminals together may cause burns or a fire.
- Do not place battery products or their batteries near fire or heat. This will reduce the risk of explosion and possibly injury.

- Do not crush, drop or damage battery pack. Do not use a battery pack or charger that has been dropped or received a sharp blow. A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.
- Batteries can explode in the presence of a source of ignition, such as a pilot light. To reduce the risk of serious personal injury, never use any cordless product in the presence of open flame. An exploded battery can propel debris and chemicals. If exposed, flush with water immediately.
- Do not charge battery product in a damp or wet location. Following this rule will reduce the risk of electric shock.
- For best results, your battery product should be charged in a location where the temperature is more than 10°C but less than 40°C. To reduce the risk of serious personal injury, do not store outside or in vehicles.
- Under extreme usage or temperature conditions, battery leakage may occur. If liquid comes in contact with your skin, wash immediately with soap and water. If liquid gets into your eyes, flush them with clean water for at least 10 minutes, then seek immediate medical attention.
- When servicing a battery product, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of shock or injury.
- Maximum initial battery pack voltage (measured without a workload) is 12 volts. Measured under a workload, nominal voltage is 10.8 volts.
- During charging, the battery pack will automatically cut off charging when it reaches 12.2V to avoid excessive voltage; When discharging, the battery pack will automatically cut off the power supply at about 9.6V to prevent battery damage.
- Generally, the input of the charger is a wide voltage. This means that our charger is suitable for AC voltage of 100V ~ 240V, 50~60Hz. You can charge your battery in Europe or in the United States with the charger.
- Do not expose charger to rain or snow.

Technical Data

1> Cordless Waxer/Polisher

Model: PW12CC/PW12DC

Rated Voltage: 12V Max. DC

Rated Power: 5A(60W)

No load Speed: 2500~5000 RPM

Eccentric distance: 5/16"(8mm)

Pad Size: 4"(10cm)、5"(12.5cm)、6"(15cm)

2> Battery Pack

• Model: CKBP1220

• Battery Voltage: 12V Max

• Nominal Capacity: 2000 mAh

• Max Continuous Discharge Current: 10A

• Max Continuous Charging Current: 2.5A

• Discharge Temperature: -4~140 ℉ (-20~60 ℃)

3> Battery Charger

• Model: CKBC1225

• Input: 100~240V, 50W, 50~60Hz

• Output: 12V DC, 2.5A

• Charging Temperature: 32~104 ℉ (0~40 ℃)

Structure and Accessories (Fig-1)

1> Battery Pack: 12V Max, 2000mAh Li-ion battery pack, compatible with Parkside(Lidl).

2> Battery Pack Release Button: hold it down and you can install/remove the battery pack.

3> Polisher Handle: used to hold the item.

4> On/Off Switch: trigger the button to start the polishing machine; It is triggered again and the polishing machine stops working.

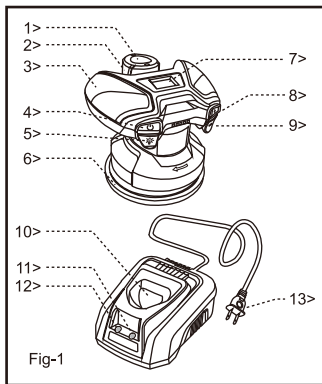


Fig-1

- 5> Display Backlighting Button: press it to turn on the backlight; Repress it to turn off the backlight.
- 6> Polishing Disk: its surface is covered with Velcro to attach various polishing bonnets.
- 7> Display Screen: it shows speed(RPM) and remaining battery .
- 8> Speed Button +: increase the speed of the polisher.
- 9> Speed Button -:decrease the speed of the polisher.
- 10> Charging Inlet: when powered on, insert the battery here and the battery will start charging. The charger is compatible with Parkside(Lidl).
- 11> Charging Indicator Light (green):the indicator light is always on, which means that the battery is not plugged into the charger or the battery is fully charged.
- 12> Charging Indicator Light (red): the indicator light is always on, which means that the battery is charging.
- 13> Charger Plug: the input terminal of the charger has a wide voltage range, and it can be inserted into the AC power grid of 100~240V, 50/60Hz.

Items Supplied

PW12DC (Power Tools Polisher & Waxer 12V Max Direct Current):

- 1> Polisher Set
 - Polisher Body ×1
 - Battery Pack ×1
 - Charger ×1
 - Cigarette Lighter Plug to Battery Pack Power Supply ×1
 - Velcro Connection Pad for Connecting Various Pads ×3
- 2> Washing Project
 - Coral Fleece Towel for Washing ×1
- 3> Metal Body Correction Project
 - #1000 Sandpaper for Medium Sanding ×5
 - #2000 Sandpaper for Fine Sanding ×5
- 4> Paint Correction Project
 - Wool Pad for Heavy Cut ×3
 - Wave Foam Pad for Medium Cut ×2
 - Cover Tape ×1
- 5> Paint Polishing Project
 - Flat Foam Pad for Low Cut & Final Finish ×2
- 6> Paint Protect Project
 - Microfiber Finishing Pad for Waxing ×3
- 7> Others
 - Storage Bag ×1
 - User Manual ×1

PW12CC (Power Tools 12V Max Polisher/Waxer & Car Clean Set):

- 1> Polisher Set
 - Polisher Body×1
 - Battery Pack ×1
 - Charger ×1
 - Velcro Connection Pad for Connecting Various Pads ×3
- 2> Washing Project
 - Chenille Gloves for Washing ×1
 - Coral Fleece Towel for Washing ×1
 - Detail Brush for Cleaning ×5
- 3> Paint Correction Project
 - Wool Pad for Heavy Cutting ×3
 - Hex Foam Pad for Medium Cutting ×2
 - Cover Tape ×1
- 4> Paint Polishing Project
 - Flat Foam Pad for Low Cutting & Final Finish ×2

5> Paint Protect Project

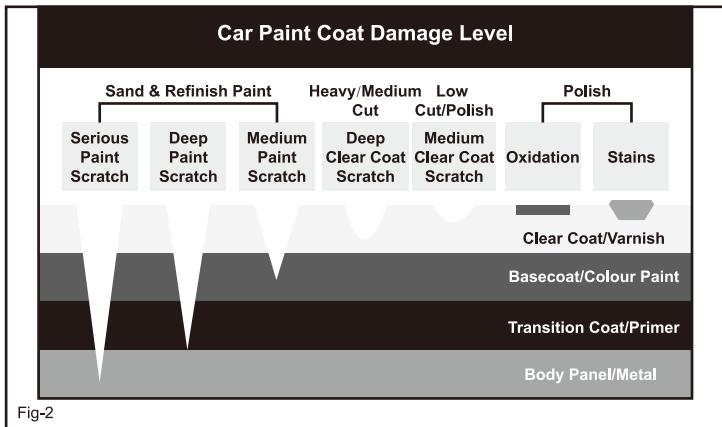
- Microfiber Finishing Pad for Waxing ×3

6> Others

- Storage Bag ×1
- User Manual ×1

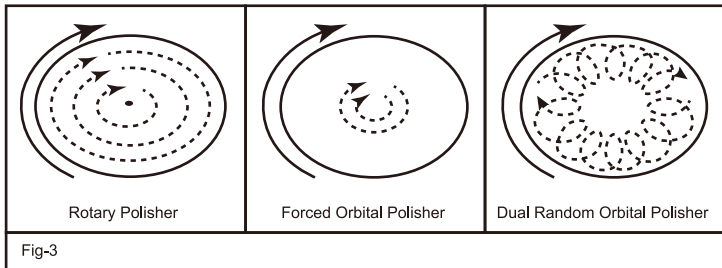
Note: The above accessories are the factory default configuration; if there is any difference, please refer to the dealer's publicity.

Instructions for Car Paint Coat (Fig-2)



- The body surface is divided into four layers: Metal Body Panel, Primer, Basecoat and Clear Coat.
- Usually, we only polish the car when the Clear Coat is damaged and the other three layers are not damaged.
- When the Basecoat or Primer is damaged, we need to fill them with paint and repair them.
- When the Metal Body Panel is damaged, we need to sand it and refill the paint.

Difference Between Polishers And Waxers(Fig-3)



- Rotary Polisher: The pads move clockwise in concentric circles, the polishing efficiency is very

high, it can quickly remove very deep scratches, and can also remove #1500~#2000 sand marks; the temperature of the pads rises very quickly, which is easy to damage the body paint. Suitable for experienced professional detailers.

- **Forced Orbital Polisher:** The pads move clockwise in concentric circles, and the cutting force is concentrated in the center of the pad, and the polishing efficiency is average; the temperature of the pads rises at a moderate speed, which may damage the body paint. Suitable for DIYers with some experience.

- **Your Waxer/Polisher belongs to Dual Random Orbital Polisher:** the pads make irregular elliptical motion clockwise, the cutting force is more dispersed, and the polishing efficiency is average; the temperature of the pads rises slowly, which is very likely to protect the body paint. Suitable for beginners, experienced DIYers and professional detailers.

Car Detailing Flowchart

- Please refer to the attached sheet at the back of the table of contents.

Use Your Cordless Dual Random Orbital Waxer/Polisher

1) Before Operation

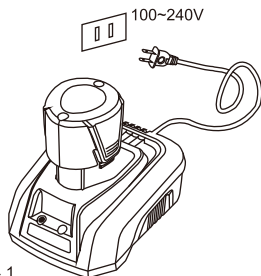


Fig-4.1

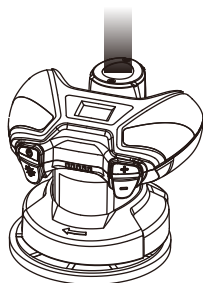


Fig-4.2

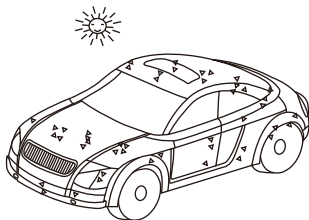


Fig-4.3

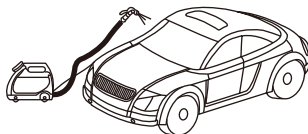


Fig-4.4

NOTE:

- Although this discussion deals with polishing a car, your polisher is capable of polishing a wide array of flat surfaces such as hardwood floors, furniture, boats and other surfaces that could use an occasional shine.
- In general, cars should be waxed once every 2 to 3 months (parked on the road); waxed once

every 3 to 5 months (parked in the garage). Complete cleaning of the car body is necessary, and whether polishing is required before waxing depends on the situation. If there are no obvious stains or scratches on the car body, polishing is not required, and vice versa. For more detailed steps, you can refer to the illustrations at the back of the table of contents.

- Before you begin, make sure the car is clean and dry. The work area should be dry also. If necessary, remove road tar with a general cleaner before polishing. Also remove excess grease spots, bug stains, etc.

Steps:

Step 1: fully charge the battery. (Fig-4.1)

Step 2: install the battery into the polishing machine. (Fig-4.2)

Step 3: put neutral detergent on the position as shown and prepare to clean your car.(Fig-4.3)

Step 4: completely clean your car with a high-pressure washer or towel.(Fig-4.4)

2) Waxing & Polishing

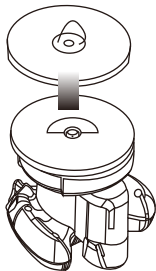


Fig-5.1

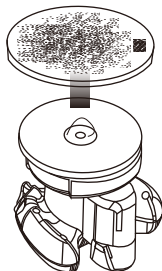


Fig-5.2

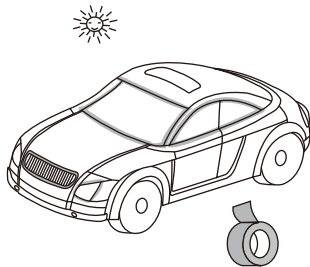


Fig-5.3

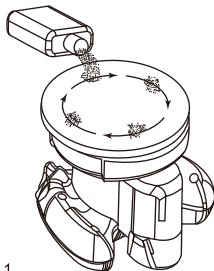


Fig-5.4.1

- Before you start waxing, you need to wear the necessary protective gear. For example: gloves, masks, goggles.

Step 1: Assemble and adjust. Install the velcro connector. Place the velcro connector on the base of the polisher, as the picture shows. There are three different sizes of velcro connector. (Fig-5.1)

Step 2: Install the microfibre finishing pad. Make sure it is stowed securely and evenly around the underside of the pad.(Fig-5.2)

Step 3: Cover the plastic areas with tape to protect them from corrosion. Usually: lights, windows, wipers, handrails and other areas need to be covered. (Fig-5.3)

Step 4: Waxing.

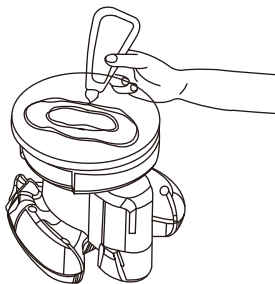


Fig-5.4.2

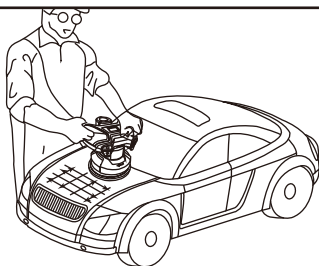


Fig-5.5

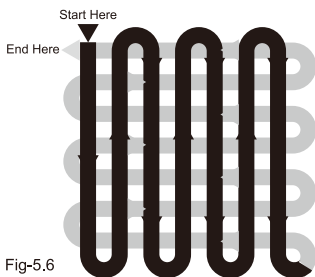


Fig-5.6

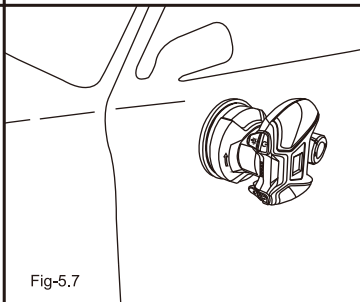


Fig-5.7

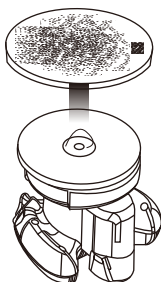


Fig-5.8

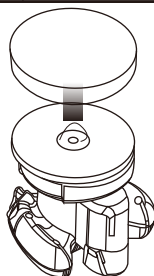


Fig-5.9

• Before you start waxing, you need to wear the necessary protective gear. For example: gloves, masks, goggles.

Step 1: Assemble and adjust. Install the velcro connector. Place the velcro connector on the base of the polisher, as the picture shows. There are three different sizes of velcro connector. (Fig-5.1)

Step 2: Install the microfiber finishing pad. Make sure it is stowed securely and evenly around the underside of the pad. (Fig-5.2)

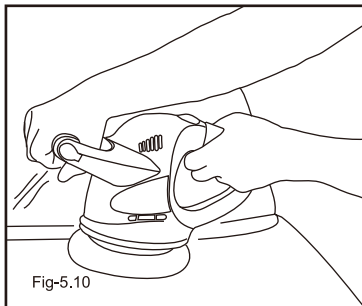


Fig-5.10

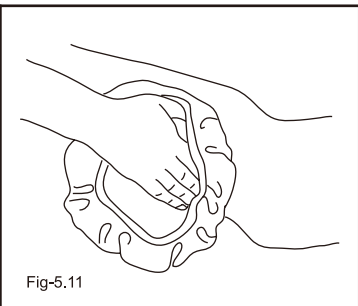


Fig-5.11

Step 3: Cover the plastic areas with tape to protect them from corrosion. Usually: areas such as lights, windows, wipers, armrests, etc. need to be covered. (Fig-5.3)

Step 4: Waxing.

- Tips: Car wax is divided into paste wax and liquid wax. Paste wax is more effective and more complicated to operate; liquid wax is less effective but easier to operate. We recommend using liquid wax in this polisher.

- **DO NOT APPLY WAX DIRECTLY TO CAR.**

I use paste wax.(Fig-5.4.1)

- Apply a teaspoon of wax evenly to the entire surface of the microfiber finishing pad. And use a scraper or other metal to smooth clockwise.

I Use liquid wax.(Fig-5.4.2)

- Apply three circles of liquid wax to the microfiber finishing pad.

This first application should do about 1/4 of the car. For the second and third applications of wax, use half the quantity stated above.

- The bonnet will not absorb as much when reloading.

Step 5: To turn on the polisher, flip the switch. To turn it off, flip the switch again. After power on, press "+" or "-" to adjust the speed. Generally speaking, the waxing machine is adjusted to 2500~3000RPM when waxing.

Step 6: Always start and stop the polisher on or against the surface. Do flat surfaces first - hood, trunk and roof. Cover areas quickly with broad, sweeping strokes in a crisscross pattern. You can refer to the waxing route in the picture. (Fig-5.6)

Step 7: After flat surfaces are covered with wax, do sides of the car. It is not necessary to use a criss-cross motion on doors and fenders. Hold the polisher as in Fig-5.7.

Step 8: After the waxing is completed, remove the waxing pad and wash it in clean water. (Fig-5.8)

Step 9: Install the flat foam pad and wait about 10 minutes for the wax to air dry. (Fig-5.9)

Step 10: Power on and polish the wax. You can follow the route shown above. The recommended speed is: 4500~6000RPM. Do not polish for long periods of time when passing windows, handles, and other edges. Otherwise, you may damage the paint. (Fig-5.10)

Step 11: For surfaces that some polishers can't reach, such as under the bumper and near the door handles, you can polish them by hand. (Fig-5.11)

From then on, the waxing and polishing are done.

Tool Protection System

- **Overload:** Excessive loads can generate abnormally high currents. When the current is higher than 20A, the battery automatically cuts off the power. At this point, release the trigger switch on the tool and stop the project. Pull the trigger switch again to restart.

- **Overheating:** When the battery temperature is higher than 122 °F (50 °C), the battery will automatically cut off the power and recover after cooling down.

- Low voltage protection: If the remaining battery voltage is too low, it will damage the battery itself. When the voltage is lower than 9.75V, the battery will automatically cut off the power and recover after recharging.

Handy Hints

- This waxer/polisher is a random orbit polisher. it is designed to wobble. The wobbling motion produces the fine, swirl free finish.
- For best results, use light pressure only, letting the polisher do the work.
- Exercise caution around edges, corners or small surface areas. Prolonged polishing on edges and corners can damage these areas dried at the lowest setting however air drying is recommended.
- The most common error is applying too much wax. If pad becomes saturated, it will not last as long and polishing will be more difficult and take longer.

Too much wax may have been applied if:

- foam applicator pad continually comes off connector;
- buffing seems difficult.
- The polishing pad is only to be used for the final buff. Do not use it to apply wax.

Maintenance

- Clean the power tool using a soft, damp cloth. Never immerse any part of the tool into a liquid.
- The best storage voltage of lithium battery is 10.5~11.5V, please charge the battery pack every three months; Check the state of the charger power cable before each use.
- Power tools should be placed in a dry and ventilated environment at 41~77 °F (5~25°C).
- After the power tool is damaged, the lithium battery pack should be placed in a special battery recycling station. Please refer to local laws.
- To prolong pad life and shape, always store polisher with pad face up.
- Remove waxing/polishing pad from connector when polisher is not in use so that pad can dry out and retain its original shape.

After waxing/polishing, clean the polishing/waxing pad with a mild detergent and water.

Troubleshooting

See the page after the table of contents.

Warranty

- 30 Days Money Back Guaranty: you are allowed to return your product for a full refund.
- 30 Days to 6 Months: We will replace the defective unit due to manufacture fault with a new one.(You will receive extra 6 months warranty if you register on our website.)
- 6 Months to 24 Months: we will provide timely and effective online after-sales service after your purchase.

Contact us

Should you have any questions about the item, or any thinkwork tool ever fails to give complete satisfaction, save time and contact us for replacement, and our email is:

support@thinkworktools.com

We are open Monday through Friday from 8:00 a.m. to 5:30 p.m. Eastern Standard-Time.

UK

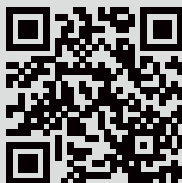
REP

Company:
YH Consulting Limited
Address:
C/O YH Consulting Limited
Office 147,Centurion House ,
London Road ,
Staines-upon-ThamesStaines ,
Surrey , TW18 4AX

EC

REP

Company : Apex CE Specialists Limited
Adresse : Unit 3d North Point House
North Point Business Park
New Mallow Road Cork T23 AT2P Ireland



scan for Product Registration



Shenzhen thinkwork Technology Co., Ltd



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RoHS



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