



3-IN-1 CAR REPAIR TOOLKIT

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INSTRUCTION MANUAL



Electric jack | Inflator Pump | Electric Impact Wrench

*Please read this manual carefully
before operating and save it for
future reference*



2-IN-1 ELECTRIC JACK

FEATURES

- The machine is with the fashion and beautiful design, and adopts the advanced electric machinery technology. It is low noise, quick speeding, stable lifting performance and so on.
- Considering the safety, the machine designs self-locking power structure and overloading protection device specially. That is to say: when the power has been disconnected, the lifted jack will not fall, only re-connecting the power, the jack will go on working, or using the safety knob to fall the car, which will protect the operator's personal safety effectively.
- In order to strengthen the practicability, the machine is added the function of Tire Inflator Pump. So the machine combines two functions: Car Jack and Tire Inflator Pump.
- The machine is widely used for Family Car, Go-anywhere Vehicle, Multi-Purpose Vehicle.

SAFETY WARNINGS

- Please read this manual carefully before using.
- The material of the cover is plastic, which is easy to break, please handle it with care when using. Then if carrying it, please with the handle, Not lifting the pressure rod.
- Do not overhaul the machine to avoid destroying the machine and lose the right of Guarantee.
- Do not work for long time, when not using, please cut off the power. Avoid the machine dropping into the water and using in the bad condition.
- Check the power to match well with 12V Car Cigarette Lighter before using.

- Take notice of the smooth floor and loading capacity when using, also pay attention to finding the exact loading position of the car before the operation of lifting.
- Do not overload when using the machine, make sure to keep upright with the lifting car at the same time, never operate it aslant.
- Do not pull the power cable casually when using, avoid the cable broken or short circuit.
- Make sure the car park in one side and close the engine before using. In the process of using the machine, ensure the operator stay with it all time, in case the operator have to leave for a short while, please shut off the machine first.
- The machine adopts the power of precise hydraulic oil, please keep the adequate ventilation, avoid doing it in the environment of high temperature and rather low temperature, while the suitable temperature should be from -15°C to 50°C.

SPECIFICATIONS

Electric Jack:

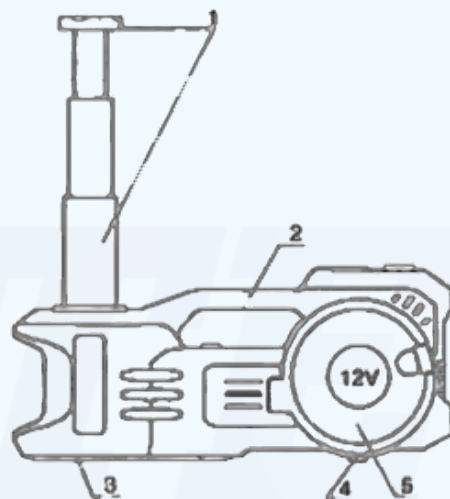
Input Voltage	12 Volt DC
Rated Power	150 Watts
Max. Current	13 Amps
Fuse	15 Amp, 250 Volt
Max. Loading Car Weight	3.0T/5.0T
Length of Power Cable	3.5m
Working Temperature	-15 - 50°C
Lifting Height Range	135-360mm (Common Item) 155-450mm (Update Item)

Inflator Pump:

Input Voltage	DC 12V
Inflating Speed	351/min
Max. Current	10A
Max. Pressure	10BAR/150PSI
Length of Air Hose	600mm
Cylinder Diameter	25mm

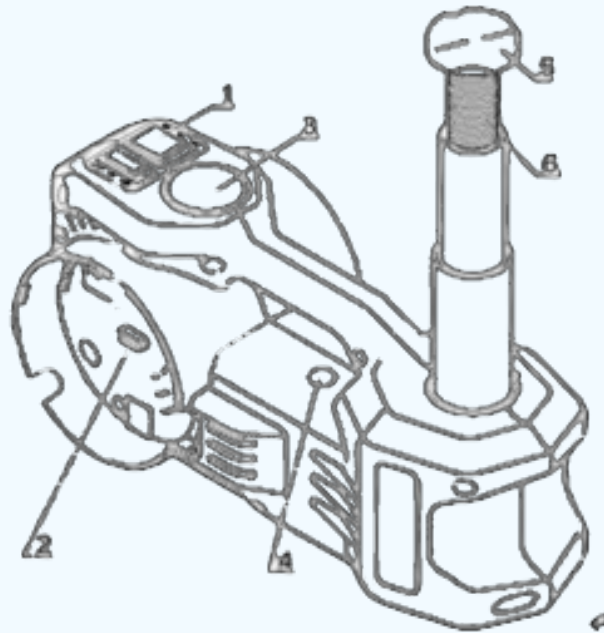
PRODUCT PARTS:

Diagram One:



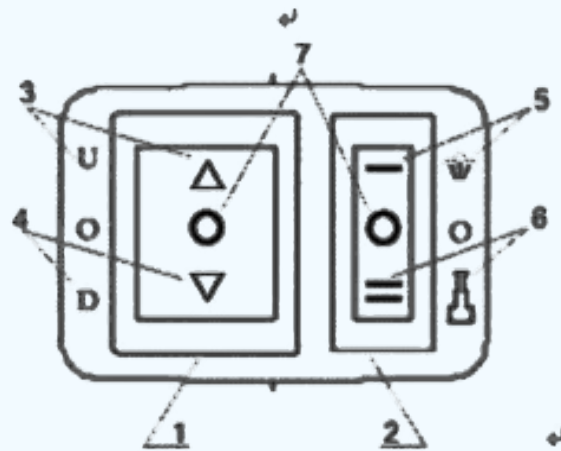
NO	NAME	FUNCTION DESCRIPTION
1	Pressure Rod	The Rod is for lifting
2	Handle	If moving the jack, please hold here
3	Base Plate	Make the loading stable
4	Rubber Foot	Shockproof and Anti-skidding
5	Lime Winding Box	The box is used for collecting the lines

Diagram Two:



NO	NAME	FUNCTION DESCRIPTION
1	Switches	See Diagram 3
2	Toolbox	Put the tools and collect the air hose here
3	Pressure gauge	Show the pressure
4	Safety valve	Unlock the pressure rod in emergency
5	Protective pad	Lift the protective pad
6	Adjusting Screw	Adjust the distance of the pressure rod and the automobile chassis

Diagram Three:



NO	NAME	FUNCTION DESCRIPTION
1	Direction Switch	Up/Close/Down
2	Function Switch	Inflation/Close/Down
3	U	Up
4	D	Down
5	Air Bag	Inflation
6	Jack	Lift
7	O	Close

Application Method

Jack Function:

1. Turn off the car and apply the hand brake. It is recommended that the wheels of the vehicle be chocked. Ensure no one is in the car while the jack is in use.
2. Ensure the switch is in the closed "O" position, then connect the power plug into the car's dashboard power supply.
3. Place the jack on the inner side of a car tyre and ensure the centre of pressure rod is aligned with the loading part of the automobile chassis. Rotate the adjusting screw to raise it close to the automobile chassis as possible.

4. Adjust the function switch to “Lift” and the direction switch to “Up”, and the jack will operate. When the distance between the car tyre and the floor is about 5cm, reset the directional switch to centre. When the power is disconnected, the machine will lock automatically and hold the load in place.
5. After changing the tyre, adjust the direction switch to “Down” and the jack will retract the pressure rod.
6. Once finished, collect the cables and tools for storage in the line winding box.

Inflation Function:

1. Pull out the air hose and choose the suitable inflatable head to connect to the tyre, then turn on the power.
2. Adjust the function switch to “Inflation” and it will start to inflate. Ensure to monitor the pressure gauge whilst inflation is in progress.
3. When finished inflating, turn off the power first, then pull out the inflatable head to store in the toolbox. The dashboard power plug can then be removed, and the cables collected into the toolbox.

Troubleshooting

Problem	Possible Cause	Solution
2-in-1 unit does not turn on	The two switches on 2-in-1 unit are not set to correct position.	Set the switches to their current positions
	The power cable is not connected securely to the vehicle's cigarette lighter outlet.	Press the plug inside the outlet and make sure the LED indicator on power cable plug is on.
	The LED indicator on the power cable plug is off. The power cable internal fuse is blown.	Replace the fuse(15A).
	The power cable is damaged.	Have a qualified service person to repair cable.
	The vehicle's cigarette lighter outlet is dirty.	Clean the outlet.
	The vehicle's cigarette lighter outlet protective fuse is blown.	Refer to vehicle's operating manual for fuse replacement instructions.
	The vehicle's battery is dead.	Recharge/replace the battery.

The inflator motor is running but does not inflate the object.	The hose nozzle is not properly attached to the inflatable object.	Secure the nozzle to the object.
	The inflator hose or inflatable object has a hole, allowing air to escape.	Repair the hose or object.
	The tire is completely deflated and is separated from the rim, allowing air to escape.	Jack up the vehicle to release the tire from under the vehicle's pressure.
The inflator takes too long to inflate the object.	The vehicle's battery voltage is too low.	Recharge/replace the battery
	The inflator has been running too long.	Rest the unit for 15-20 minutes.
	The inflator hose is damaged or is leaking.	Repair the hose
	The hose connector is not properly connected to the inflatable object air inlet.	Secure the nozzle to the object.
Inflator hose is hot	The inflator has been running too long.	Rest the unit for 15-20 minutes.
The jack motor is running but does not operate.	Load is too heavy.	Reduce the load by relocating the jack to other lifting points of the vehicle.
	The jack is leaking hydraulic fluid internally.	Unit is defective. Contact Kogan.com
	The jack has not been used for a long time and needs to be cycled.	Set the jack Up/Down switch to Up and then Down a few times.
	The safety valve screw is loose	Tighten the release valve screw.
	The jack Up/Down switch is set to the incorrect position.	Set the switch to the correct position.
The jack takes too long to lift the load.	The vehicle's battery voltage is too low.	Recharge/replace the battery.
	The jack has been running too long	Rest the unit for 15-20 minutes.
	The jack is leaking hydraulic fluid internally.	The unit is defective. Contact Kogan.com
	Ambient temperature is too low causing jack's hydraulic fluid to thicken.	Warm up the unit for 1 hour before use.
	The Safety valve screw is loose.	Tighten the safety valve screw.
Only the first stage of jack's pressure rod rises	The load is too heavy.	Reduce the load by relocating the jack to other lifting points of the vehicle
	The jack has been running too long.	Rest the unit for 15-20 minutes
The pressure rod does not come down when jack switch is set to Down position.	The inflator/Jack switch is either set to Off or Inflator position.	Set the switch to Jack position.
	The pressure rod is stuck.	Loosen the safety valve screw to allow the pressure rod to come down.

How to use the safety valve?

Remove the head of safety valve (see Diagram 2, point 4). Loosen the safety valve with a hex wrench (rotate about a half-circle anticlockwise) until the pressure rod falls to the default position, then tighten it again.

Electric Impact Wrench

SPECIFICATIONS

- Voltage: DC 12V
- Max. Current: 12A
- Rated Power: 100W
- Max. Torque: 340N.M
- Weight: 2.0KGS

ACCESSORIES

- Fuse
- 2pcs wheel nut socket adapters with size 17-19mm, 21-23mm
- 3.5M power cable with the adapter of auto cigarette lighter

OPERATING INSTRUCTIONS

1. Park your vehicle safely on level ground, then follow your vehicle manufacturer's instructions to jack up the vehicle so that the wheel you want to change is clear of the ground.
2. Plug the electric impact wrench into your vehicle's cigarette lighter, or connect directly to your car battery 12V only using the supplied adapter cable.
3. Choose the proper socket to the wrench's shaft. (check Figure 1)
4. According to working rotation, choose the switch for loosening or tightening. (check Figure 2)
 - Press right side of the switch (with mark) to start operation, and each nut will be loosened after two or three times of "clatter" sound.
 - Press left side of the switch (with mark) to tighten nuts, it will be tight enough after two or three times

OPERATION DIAGRAMS:

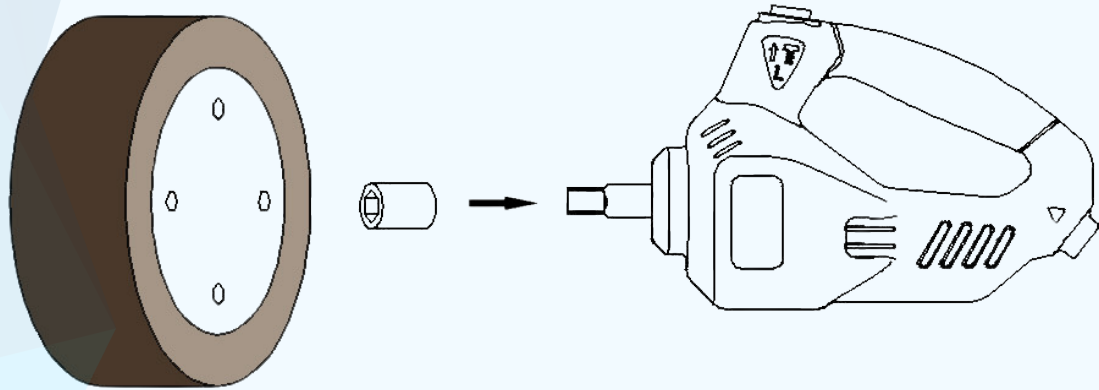


Figure 1

Choose and apply the correct socket to the wrench head

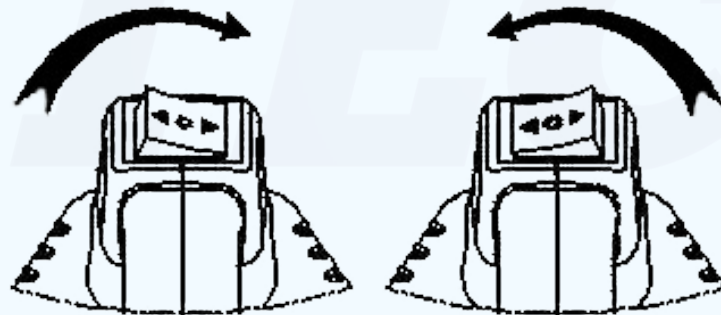


Figure 2

Apply the wrench to wheel nut and press the left side of the switch () to start; the nut will be loosened within 3 seconds.

CAUTION

- This electric wrench only use with 12V vehicle power systems.
- Do not use the electric wrench continuously for more than 10 minutes at one time.
- Do not touch the drive shaft head with hand during operation.
- Take care to use the correct polarity when connecting the wrench to a vehicle's battery terminals. For negatively earthed vehicles, always connect the red battery clip to "+" positive terminal and the black battery clip to "-"negative terminal.
- New Fuse's rated electric current should be 15A.
- Turn off the switch 3-5 seconds after hearing the "clatter" sound, then continue the operation. The manufacturer recommends checking the tightness of the wheel
- nuts with a wheel brace after tightening with the impact wrench. The impact wrench is only for emergency use. Use a professional torque wrench to recheck the correct torque as soon as possible.
- The manufacturer takes no responsibility for incorrect usage of this product and the electric wrench is only designed to loosen and tighten the wheel nuts of vehicle.
- Young children should be supervised to ensure they do not play with the appliance.

There's a 1 year guaranty on the Electric Jack and Inflator pump. But no guaranty on the impact wrench.



NO	NAME	QUANTITY
1	2-in-1 electric jack	1 PC
2	Electric impact wrench	1 PC
3	Plastic toolbox	1 PC
4	12V DC power cable	1 PC
5	Safety hammer	1 PC
6	Socket adapters	2 PCS
7	Battery clamp connecting cable	1 PC
8	Inflatable needle and hose connectors	3 PCS
9	Fuse	2 PCS
10	Hex wrench	1 PC
11	Gloves	1 Pair

