User Instruction

DL-JM100-E1 DL-JM115-E1 DL-JM125-E2



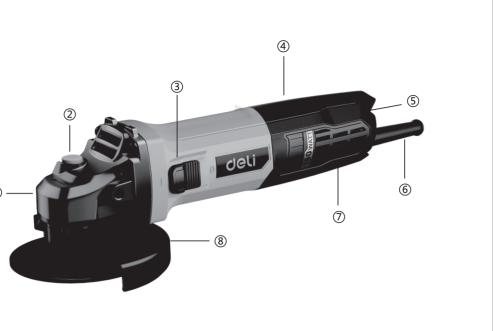
The picture is for reference only

- Schematic Diagram of the Angle Grinder
- 2. General Safety Warnings for Power Tool
- 4. Installation and Function Description

3. General Safety Rules of the Angle Grinder

- 6. Description of Attachment
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1 Schematic Diagram of the Angle Grinder



This schematic diagram is for reference only The appearance of the machine varies for different models, and the actual product shall prevail!

al	Name	Serial No.	Name
	Head casing	(5)	Rear switch
	Self-locking cap	6	Cable sheath
	Side switch	7	Rear cover
	Carbon brush	8	Guard

2 General safety warnings for power tool

head when operating a power tool. Do not operate power tool when you are tired, or in response to drugs, alcohol, or therapy. Read all warnings and instructions. Failure to follow the following A moment of neglect in handling a power tool can result in seriwarnings and instructions may result in electric shock, fire and/or ous iniurv. serious injury. Save all warnings and instructions for inquiry.

In the following warnings the term "power tool" refers to mains powered (corded) power tool or battery powered (cordless) power

Workplace Safety

- 1.Keep the workplace clean and bright. Chaotic and dark sites can cause accidents. 2.Do not operate power tool in an explosive environment, such as
- one with flammable liquid, gas or dust. Sparks from power tool can ignite dust or gas. 3.Keep children and bystanders away when operating power tool.

Lack of concentration can make the operator lose control of the

Electrical safety

Feature description

Switching

- 1.Power tool plug must match the socket. The plug should never be modified in any way. Power tool to be grounded should not use any conversion plugs. Unmodified plugs and matching sockets will reduce the risk of electric shock.
- 2.Keep the human body away from grounded surfaces, such as pipes, heat sinks, and refrigerators. There is an increased risk of electric shock if the human body earthed. 3. Power tool must not be exposed to rain or damp environment.
- Water entering the power tool will increase the risk of electric
- 4.Do not misuse electrical wires. Never use electrical wires to carry pull or unplug power tool. Keep the wire away from heat, oil, sharp edges or moving parts. Damaged or tangled wires will increase the risk of electric shock. 5. When using power tool outdoors, use an extension cord suitable
- for outdoor use, which will reduce the risk of electric shock. 6.If it is not possible to avoid operating power tool in a humid envi ronment, use a power supply with Residual Current device (RCD)

that the power supply of the machine

switch of the tool operates freely and

has been turned off. Check that the

ensure that the switch is off before

When starting the polishing machine,

pull the switch lever to Position "ON"

or "1".When stopping the machine, pu**ll**

the switch lever to Position "OFF" or "O".

When starting the polishing machine,

protection. The use of RCD can reduce the risk of electric shock.

Personal safety

- 1.Keep alert. Pay attention to what you are doing and keep a clear
- 2.Use personal protective equipment. Wear goggles and safety devices at all times. Use of equipment such as dust masks, non-
- slip safety shoes, hard hats, hearing protection, etc., under appropriate conditions, can reduce personal injury. 3.Prevent accidental starting. Make sure the switch is in the off po-
- sition before connecting the power supply and/or battery case, sition before connecting the power supply and/or battery case, and before picking up or carrying tool. Putting a finger on a switch and before picking up or carrying tool. Putting a finger on a switch that is powered on or inserting the plug while the switch is on can that is powered on or inserting the plug while the switch is on can cause a hazard. cause a hazard. 4.Remove all adjustment keys or wrenches before power tool are
- 4.Remove all adjustment keys or wrenches before power tool are switched on. A wrench or key left on the rotating parts of a po-
- wer tool can cause personal injury. 5.Do not stretch your hand too long. Always pay attention to your footing and balance. So that you can have a good control of po-

clothing, attachment and long hair can get caught up in moving

- wer tool in unexpected situations. 6.Dress appropriately. Don't wear loose clothing or accessories. 6.Dress appropriately. Don't wear loose clothing or accessories. Keep clothes, gloves, and hair away from moving parts. Loose
- '.If a device is provided for connection with a chip removal or dust collection device. Ensure good connection and proper use. The use
- of these devices can reduce the hazard caused by dust. of these devices can reduce the hazard caused by dust. 8.Don't take a casual attitude and ignore the tool's safety guidelines 8.Don't take a casual attitude and ignore the tool's safety guidelines just because you are getting familiar with the tool after frequently using it. One careless action can lead to serious injury in an instant. Use and precautions of power tool Use and precautions of power tool
- 1.Do not use power tool for improper purposes. Use appropriate power tool according to the application. Using power tool properly designed with rated values will help you work more efficiently and
- 2.If the switch cannot turn on or off the power supply of the tool, the power tool cannot be used. Power tool that cannot be controlled with the switch are dangerous and must be repaired.

4. In order to prevent sparks and grinding debris from shooting on the

Personal safety

ous injury.

2.Use personal protective equipment. Wear goggles and safety

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- 1.Keep alert. Pay attention to what you are doing and keep a clear head when operating a power tool. Do not operate power tool when you are tired, or in response to drugs, alcohol, or therapy. A moment of neglect in handling a power tool can result in seri-
 - 4.Keep the power tool not for use out of the reach of children; the person operating the power tool shall be familiar with the tool a nd have learned these instructions. Power tool is dangerous in the hands of untrained users.

will reduce the risk of accidental starting of the tool.

5.Maintain the power tool and attachment. Check the installation deviation or jamming of moving parts, damage to the parts and other conditions affecting the operation of power tool. Any damage should be repaired before use of power tool. Many accidents are caused by poorly maintained power tool.

6.Keep cutting tool sharp and clean. A well-maintained tool with a

3.Unplug from the charger before making any adjustments, repla-

cing attachment or storing power tool. This protective measure

- sharp cutting edge is less likely to get stuck and easier to control. '.Use the power tool, attachment, and work cutter etc. according to the instructions, the requirements for the specific model of the power tool in consideration of the operation conditions and the work to be done etc. Danger may be resulted if the power tool is used not in compliance with the requirements.
- 8.Keep handle and holding surface dry, clean and free of grease. In the event of an accident, a slippery handle does not guarantee a safe grip and control of the tool.

Maintenance and repair

- Power tool should be repaired by professional maintenance personnel using the same spare parts. This will ensure the safety of the power too**l** being repaired.
- Wear ear plugs. Exposure to noise can cause hearing damage. Use the auxiliary handle provided with the tool. Improper operation may cause personal injury.
- The hidden line or its own flexible wire may be touched when cutting attachment, so when operating at this position, the tool should be held by an insulated holding surface. Cutting accessories touching live wires can electrify the exposed metal parts of the tool and cause electric shock to the operator.

3 General safety rules of the angle grinder

General safety warnings of the angle grinder

- Long-term exposure to high intensity noise may cause hearing loss. 1.This power tool functions as a grinder, for cutting and grinding. 9.Keep bystanders at a safe distance from the work area. Any person Read all safety warnings, instructions, diagrams and regulations entering the work area must wear protective equipment. Pieces of provided with the power tool. Failure to follow the following instructions may result in electric shock, fire and/or serious injury.
- 2.It is not recommended using this power tool for operations such as brushing and polishing. Power tool may cause danger and personal injury if they are not operated according to the specified functions.
- 3.Attachment not recommended by the tool manufacturer and specially designed shall not be used. Otherwise, they may not ensure safety after they are installed to your tool. 4. The rated speed of the attachment must be at least equal to the
- maximum speed marked on the power tool. The attachment will burst and splash when running at a speed higher than the rated
- 5.The outer diameter and thickness of the accessories must be within the rated capacity of the power tool. Incorrect attachment

not match the mounting parts of the power tool will lose stability,

7.Do not use damaged attachment. Before use each time, check the

excessive wear, or whether the wire brush is loose or the wire is

broken. If the power tool or attachment falls, check for damage

and install intact attachment as necessary. After checking and

installing the attachment, keep any person away from the plane

of the power tool for 1 min. Damaged attachment usually breaks

8.Always wear protective equipment. Use mask, safety goggles, or

hearing protector, gloves and work apron that can block small

safety glasses as applicable. When applicable, wear dust mask,

of the rotating attachment, and run at the maximum no-load speed

attachment, such as whether the grinding wheel has fragments

and cracks, whether the backrest cushion has cracks, tears or

cause excessive vibration and loss of control.

- dimensions will result in inadequate protection or controlling. 6.The shaft hole size of the grinding wheel, flange plate, backrest cushion or any other attachment must be suitable for installation on the spindle of power tool. Attachment with shaft holes that do
 - lead to electrical hazards.
 - 15.Do not operate power tool near flammable materials, which may be ignited by sparks.
 - 16.Do not use attachment that require coolant. Water or other cool-
 - ants may cause electrical corrosion or shock. Rebound and related warnings Rebound refers to the sudden reaction force generated by stuck or
 - twined rotating grinding wheel, backrest cushion, steel wire brush or other attachment. Blocking or winding will cause rapid rotation blocking of the rotating attachment, and then the out-of-control power tool will produce movement opposite to the rotation direction of attachment at the locking point. For example, if the grinding wheel is wound or stuck by the workpiece,

Rebound is the result of misuse of the power tool and/or incorrect operating procedures or conditions, which can be avoided with the following preventive measures. 1.The operator shall keep a firm grip on the power tool to keep his

the edge of the grinding wheel extending into the stuck point may

enter the material surface and cause the grinding wheel to creep

out or rebound. The grinding wheel may fly towards or away from

the operator, depending on the direction of movement of the grin-

ding wheel at the stuck point. Under this condition, the grinding

- work parts or broken attachment may fly out to injure bystanders close to the operation area. Cutting attachment touching live wires can electrify the exposed metal parts of the power tool and cause
- 10.For operation places where the cutting attachment may cut the hidden wires or own wires, the power tool can only be held by insulating holding surface. Cutting attachment touching live wires can electrify the exposed metal parts of the tool and cause electric shock to the operator.

abrasive or workpiece fragments. The eye protection shield must

block flying debris generated by various operations. Dust mask or

respirator must be able to filter particles generated by operation.

electric shock to the operator.

- 11.Keep the cord away from the rotating attachment. Improper control may cut or wind the cord, with which the operator's hand or
- arm may be drawn into the rotating attachment 12.Do not put down the power tool until the attachment completely stop moving. Rotating attachment may grab the surface and pull the power tool, leaving you out of control of the tool.
- 13.Do not start the power tool when carrying it. Accidental contact with the rotating attachment may entangle your clothes and cause the attachment to hurt your body.
- 14.Clean the vents of power tool frequently. The motor fan will suck dust into the enclosure, too much metal powder deposition will

- pose. For example, do not grind with the side of the cutting wheel

- 4.Always use an undamaged grinding wheel flange of the appropriate size and shape for the selected grinding wheel. The possibility of grinding wheel fracture can be reduced by supporting the grinding wheel with a suitable grinding wheel flange. The flange of the cutting wheel can be different from the flange of the grinding wheel. 5.It is not allowed to use worn grinding wheels left over from large-
- sized power tools. The grinding wheel used for large-sized power tools is not suitable for high-speed working conditions of smallsized tools and may burst. Special safety warnings for cutting operations of the grinding wheel 1.Do not "clamp" the cutting wheel or apply too much pressure. Do not cut too deeply. The application of over-stress to the grinding
- of rebound or bursting of the grinding wheel. 2.Do not face the rotating wheel or stand behind it. When the grinding wheel is removed from the operating point beside the operator, the possible rebound will push the rotary grinding wheel and

which is easy to wind or get stuck, and increases the possibility

wheel increases the load of the grinding wheel during cutting,

- 3.When the grinding wheel is stuck or the cutting is interrupted for any reason, turn off the power tool and hold the tool until the grinding wheel is completely stopped. Never try to separate the cutting wheel from the cutting when the grinding wheel is still running, or it will rebound. Investigate and take corrective measures to eliminate the cause of wheel seizure.
- 4.The cutting operation cannot be restarted on the workpiece. After the grinding wheel reaches full speed, carefully re-enter the cutting. If the power tool is restarted on the workpiece, the grinding

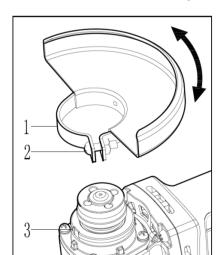
power tools towards the operator.

sides of the grinding wheel.

- wheel may jam, creep out or rebound. 5. Supporting the plate or oversized workpieces can minimize the risk of grinding wheel seizure and rebound. Large workpieces droops with their own weight. Supports must be placed near the cutting line of the workpiece and near the edge of the workpiece on both
- 6.Please take extra care when "blind cutting" into walls or other blind areas. The extended grinding wheel may cut the gas pipe or water pipe, electric wire or object causing rebound.

4 Installation and function description

Installation instructions Guard installation and adjustment



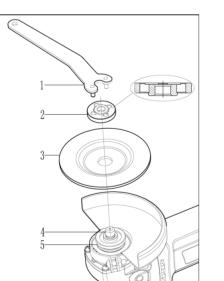
. Guard 2. Screw 3. Front cover The guard is a kind of protective device, which is used to prevent injury due to broken grinding wheel during operation. When installing the guard, turn the angle grinder upside down, take out the slot of the front cover (3) of the guard (1) and put it into the guard (1). Adjust the direction of the grinding wheel guard (1) in the direction of the arrow as required by the working conditions, and then fully tighten the screws (2) with a cross screwdriver.

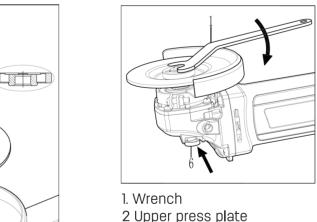
Before starting work, please confirm that the guard is installed and fastened. Slightly loosen the set screw, the guard can be ____ rotated and fixed at the required working

angle, and confirm whether the set screw is fully tightened after the guard is

Assembly and disassembly of grinding wheel

and the power plug must be pulled out from the socket.

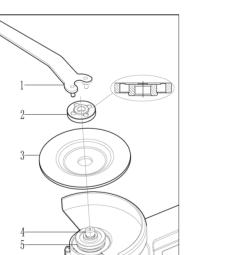


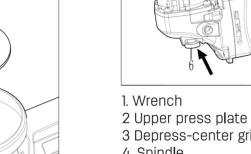


4. Spindle 5 Lower press plate

- pressing plate (5);
- 5. Press the shaft lock (6) firmly to prevent the spindle from rotating, and tighten the nut on the upper press plate (2) clockwise with a wrench (1)
- When installing the grinding plate, the convex part of the upper press plate
- The disassembly sequence is opposite to the installation sequence. When removing the grinding wheel, follow the installation steps in reverse order.

In order to prevent serious accidents, the power must be turned off

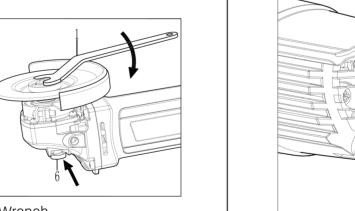




6 Shaft lock

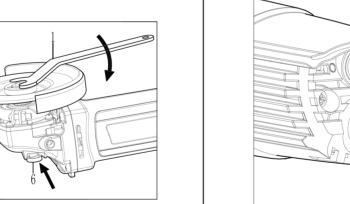
Assembly

- 2. Install the lower press plate (5) on the spindle (4):
- 4. Install the convex face of the upper press plate (2) on the depress-center
- to tighten the grinding whee**l**.



1. Face the spindle of the machine upward;

- 3. Install the protrusion of depress-center grinding wheel (3) onto the lower
- grinding wheel (3) and screw it on the spindle;
- shall face inward;



pull the switch lever to Position "1". When stopping the machine, pull the switch lever to Position "".

Side switch

Rear switch

Actual operation: To reduce hazards and injuries such as explosion and electric shock etc., check whether there are hidden wires, gas and water supply pipes on the surface of the workpiece before operation!

1. The angle between the grinding wheel and the workpiece is about 15

degrees, and partial contact renders the best effect; 2. To avoid overheating, discoloration or crazing of the workpiece, please Before connecting the power supply of apply light force to move the machine body back and forth; the polishing machine, please confirm 3. Never grind with the cutting blade:



\A**⊸**B\\

Metal grinding will generate sparks.

combustible materials within the spark scattering range to avoid fire!

Item No. | DI - IM100-F1 | DI - IM115-F1 | DI - IM125-F2

10111110.	DL-JM100-L1	DE-JIMINO-EI	DL-JM125-LZ
ted voltage	220-240V~		
d frequency	50-60Hz		
ted power	750W		
ted speed	12000rpm		
ecifications	ф 100mm	φ 115mm	φ 125mm
tch position	Rear	Side	Side
ndle thread	M10	M14	M14
lation class		Class II	

- 1.Use safety glasses. When there is much debris or dust, please wear a mask and always wear goggles. 2.Do not drill holes at the machine parts during use, which may cause
- electric leakage. 3. When putting down the angle grinder after work, first confirm whether the angle grinder is completely stopped, otherwise, it may damage
- other items. 4.If the machine is damaged due to accidental dampness, falling or natural damage due to long-term use, please have it timely maintained by professionals, and it shall be used only after passing the insulation
- 5.Ensure that the air inlet and outlet of the machine are free of foreign matters during use to prevent the machine from heating and damage.

5 Troubleshooting

Faults	Causes	Troubleshooting	
The motor does not work after power on	1. Power failure 2. Connector fallen 3. Poor switch contact or action failure of the switch 4. The carbon brush does not contact the commutator surface	1. Repair the power supply 2. Check all the connectors 3. Repair or replace the switch 4. Replace the carbon brush	
There is abnormal sound and no rotation or slow rotation after power-on 1. Switch contact burned out 2. Mechanically stuck		Switch contact burned out Mechanically stuck	
Annular fire or large sparks generated on the commutator	Armature short circuit Poor contact between the carbon brush and commutator The commutator surface is not smooth and clean	Repair or replace the armature Replace the carbon brush Remove the sundries to make the commutator surface smooth and clean	
		H	

Slow rotation and | 1. Damaged grinding plate | 1. Replace the grinding plate |

the reinforcement point

sound during oper- 2. The grinding plate touches 2. Re-select the operation

Remarks: Non-professional personnel are not allowed to disassemble the machine for maintenance, which may cause failure of the machine due to improper maintenance.

Faults	Causes	Troubleshooting 1. Repair the power supply 2. Check all the connectors 3. Repair or replace the switch 4. Replace the carbon brush	
The motor does not work after power on	1. Power failure 2. Connector fallen 3. Poor switch contact or action failure of the switch 4. The carbon brush does not contact the commutator surface		
There is abnormal sound and no rotation or slow rotation after power-on	Switch contact burned out Mechanically stuck	Switch contact burned out Mechanically stuck	
Annular fire or large sparks generated on the commutator	Armature short circuit Poor contact between the carbon brush and commutator The commutator surface is	Repair or replace the armature Replace the carbon brush Remove the sundries to make the commutator	

6 Description of the accessories

during this test.

Guard x1 Wrench x1 Carbon brush x2

7 Maintenance and service

Maintenance and cleaning 1.Before repairing power tool or changing parts and attachment, be sure

to remove the plug from the socket. 2.Power tool and ventilation gaps must be kept clean to improve the quality and safety of work. 3.If the dustproof cover is damaged, it must be replaced immediately

It is best to entrust the customer service of our company to replace it. After each operation, the tool joint must be cleaned. 4. The power tool produced by our company are strictly inspected for quality. If the machine still breaks down, please take it to our auth-

5. When operating the tool, pay attention to the cutting direction, and the direction of pushing the tool must be opposite to the rotation direction of the tool. When inquiring and ordering parts, be sure to provide the model number

Disposal of waste Damaged machinery, attachment and waste packaging materials must

of parts of the machine.

Service and customer consultation For warranty, repair or replacement of parts such as breakdown drawings of the machine and information on spare parts, please inquire with a qualified dealer.

be recycled in an environmentally friendly manner.

Product Warranty Card

Thank you for buying our products. In order to ensure your profit, users who buy our products can contact local distributor or Specified repair stations with invoice and warranty cards if the product

Warranty Notice:

failures due to quality problems.

1.From _____ (Year/Month/Day) to _____ If the failure happen in normal use, our company will provide free warranty, parts replacement and other services according to the

2. This warranty card and purchase invoice are the voucher of after-sales service provided by our company to customers. The card must be detailed only after filling in the following form and affixing the official seal with the distributor.

3.In one of the following cases, free warranty service will be invalid, and maintenance fees will be required: (1) Exceed the expiration date;

(2) Failure or damage caused by not following the requirements of the product manual, maintenance or improper storage: (3) Failure or damage caused by disassembling, repairing or modi-

fication of the product without the permission of our company; (4) Machine breakdown or damage caused by force majeure;

(5) Consumable accessories. This card is issued with the product. One card for one ma-

failure situation.

chine, to ensure that you can fully enjoy the right to free warranty service provided by the company, please keep this card properly, lost will not be replaced.

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Ninghai County, Ningbo, Zhejiang, China

NINGBO DELI TOOLS CO., LTD.

___ (Year/Month/Day)

No. 128 Chezhan West Road, Huangtan Town,

Version: 1.0 Date: Feb. , 2023

Reserved for future use

delitoolsalobal@nbdeli.com

+86 574 87562689 MADE IN CHINA

body and arm in the correct state to resist rebound. Any auxiliary handle shall be used all the time to maximally control the rebound force or torque when starting. Proper precautions taken can help

the operator control the reaction torque or rebound force. 2.Never put your hands near the rotating attachment. The attachment may rebound and injure your hands.

3.Do not stand where the power tool may move when rebounding occurs. The rebound will drive the tool against the grinding wheel movement direction at the winding point 4.Be careful when working at sharp corners and sharp edges, etc.

wheel may also break.

Avoid bounce and winding of the attachment. Sharp corners, sharp edges and bounces have a tendency to wrap around the rotating attachment and cause runaway rebound. 5.Do not attach a saw chain, wood carving blade or toothed saw

blade, which will cause frequent rebound and out-of-control. Special safety warnings for grinding and sand-cutting operations 1.Only use the recommended grinding wheel model and the guard s pecially designed for the selected grinding wheel. Grinding wheels not designed for power tools cannot be fully protected and are

in the safest way, with only the minimum part of the grinding wheel exposed to the operator. The guard helps protect the operator from the danger of bursting the grinding wheel fragments and accidental contact with the grinding wheel. 3.The grinding wheel shall only be used for the recommended pur-

2.The guard must be firmly installed on the power tool and placed

The force applied to the side of the grinding wheel may cause it

Inspector:

Date of manufacture