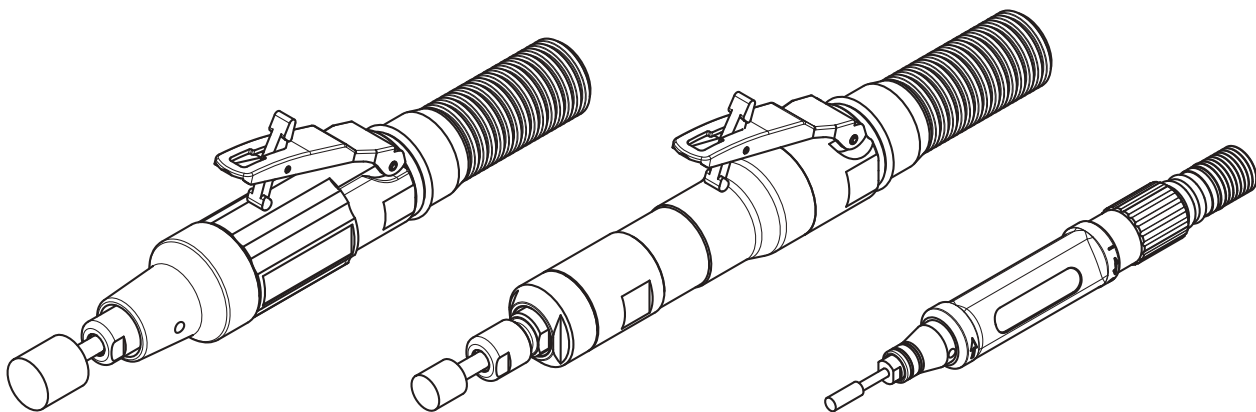


INSTRUCTION MANUAL

Professional Tool Pneumatic Die Grinder

AIR SONIC

Model: L-25B, L-35C, AL-55A



<Specifications>

Model		L-25B	L-35C	AL-55A
Maximum Operating Pressure	MPa	0.6		
Air Consumption (No Load)	m ³ /min	0.4	0.35	0.17
Rated Speed (No Load)	min ⁻¹	27000	35500	56500
Size of Collet Chuck	mm	6	6	3
Mass (Weight)	kg	0.6	0.45	0.27
Sound Pressure Level * ¹	dB(A)	76	76	71
Sound Power Level * ¹	dB(A)	87	87	82
Vibration Level [Uncertainty K] * ²	m/s ²	7.2 [4.6]	3.1 [0.8]	0.8 [0.6]
Thread Size of Air Inlet		Rc1/4	Rc1/4	G1/4

*¹ Based on the ISO15744 measurement standard.

*² Based on the 3 axes combined value measurement standard of the ISO28927-12 of the hand-tool frequency correction vibration acceleration effective value.

- Please read this manual carefully before you attempt to use your tool so that you may use it properly and safely.
- Please keep the manual handy - so you can use it whenever necessary.

• Due to continuous product development/improvement the specifications and configurations in this document are subject to change without prior notice.

Manufactured by:

NITTO KOHKI CO., LTD.

9-4, Nakaikegami 2-chome, Ohta-ku, Tokyo, 146-8555, Japan
Tel : +81-3-3755-1111 Fax : +81-3-3753-8791

TQ12790-5



Instructions


Thank you very much for your purchase of this NITTO KOHKI product.

Before using your tool, please read this manual carefully so that you may use it properly to get the most out of it.

Please keep the manual handy - so you can use it whenever necessary.

The following Safety notations are used throughout the manual to highlight safety precautions for the user and for the tool.

	WARNING:	Indicates a potentially hazardous situation which, if not avoided by following the instructions given, could result in death or serious injury.
	CAUTION:	Indicates a potentially hazardous situation which, if not avoided by following the instructions given, could result in injury or material damage.

* Please note, however, that failure to observe safety precautions under the “ **CAUTION**” category could result in a serious occurrence depending on the situation.

Please observe all safety precautions in the manual.

CAUTION: Important precautions for tool setup, operation and maintenance.

About pictograms



WARNING: It might be dangerous to operate the tool if the instructions supplied are not followed.



Using this tool improperly could result in serious injury. Read the instruction manual before using.

Contents

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Mounting and Removing Mounted Wheels and Rotary Burrs			

California Proposition 65

WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known [to the State of California] to cause cancer birth defects or other reproductive harm.

Some examples of these chemicals are:

- Lead from lead-based paints,
- Crystalline silica from bricks and cement and other masonry products, and
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

Precautions on Use (Make sure to follow the instructions given)

Before using your tool, to avoid personal injury always take the basic precautions explained in later sections.

General Power Tool Safety Warnings

Personal safety

⚠ WARNING

- **Dress properly.**

Do not wear loose clothing or jewelry. There is a danger of being caught in moving parts. Wear a pair of non-slip shoes. If your hair is long, wear a protective hair covering to contain your hair.

- **Always wear eye protection.**

Corrective glasses are not considered eye protection. Always wear appropriate eye protection.

- **Wear a dust mask.**

When dust is generated in the workplace, wear a dust mask.

- **Use a dust collector or dust collection equipment correctly.**

If a dust collector or dust collection equipment are being used, check that these are connected and used properly. Use of a dust collector can reduce risk caused by dust.

- **When loud noise is generated in the workplace, wear a hearing protection.**

- **Do not overreach.**

Keep proper footing and balance at all times.

- **Be on your guard when working.**

Do not use the tool when you are tired.

When you use the tool, be sure about the handling method, how to work, and pay sufficient attention to the surrounding environment.

- **Never touch the tip of moving parts when the tool is running.**

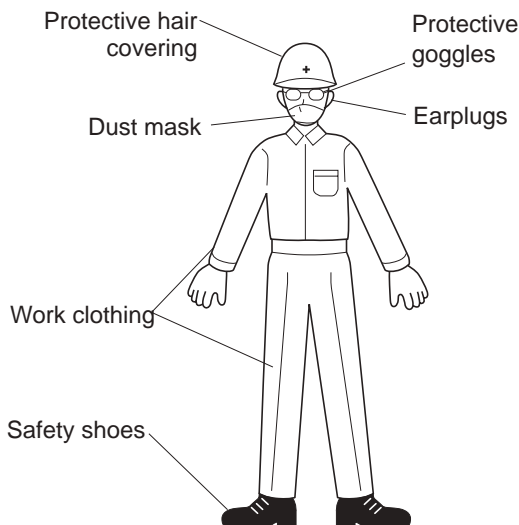
Also, do not direct the tip of moving parts toward people or animals.

- **Be aware of tool vibration and recoil. Some tools can cause a considerable amount of vibration.**

Depending on how the product is operated, the type of tool setting, and the length of operation, it could place a tremendous burden on your hands, arms and body.

The tool could cause a vibration injury or tendonitis. Avoid long-term use and take appropriate breaks.

Consult a doctor if you experience any discomfort or pain while operating the tool.



About Work Area

WARNING

- **Do not use the tool at home.**

This is a professional tool (industrial or work tool for business). Do not bring the tool home and use it there.

- **Keep the work area clean.**

Working in a messy work area or work table could cause an accident.

- **Be cautious about the work area.**

Do not expose the tool to rain.

Do not use the tool in a damp or wet place.

Keep the work area well lit.

- **Do not operate the tool in an explosive atmosphere, such as in the presence of flammable liquids (thinner, lacquer, gasoline, etc.) or gas.**

- **Do not let children come close to the work area.**

Keep children and bystanders away while operating tool.

- **Some tools generate loud noise.**

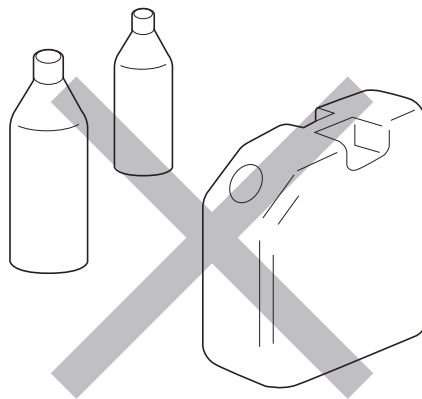
Check that the noise regulations of each area are complied with.

- **When work has to be done in high locations, make sure there is nobody underneath the work area.**

If the tool or material is dropped, it could cause an accident or injury.

- **Before starting operation, make sure that there is no conduit, water pipe or gas pipe by your work area.**

If a tool touches a buried object, it could cause electrical shock or leakage, which could cause an accident.



Before starting to work

WARNING

- **Perform inspection before using the tool.**

Before using the tool, check for loose screws on the tool and for damage on the protective cover or other parts, and make sure that the tool operates normally and demonstrates prescribed functions.

Check the position adjustment and tightening status of moving parts, parts damage, attachment status, and all other locations for issues that could affect operation.

For parts replacement and repair, follow the instructions indicated in the instruction manual.

If there are no instructions in the instruction manual, contact the retailer where you purchased the tool or the nearest NITTO service member store.

Do not use the power tool if the switch does not turn it ON and OFF.

- **Make sure to properly attach the tip tool.**

If the tip tool is not attached properly, there is a risk of jumping out or damage, which could result in injury.

- **After adjustment, be sure to remove tools such as spanners, wrenches, etc.**

- **Use appropriate tools.**

Do not force small tools to do the job of a heavy duty tool. Do not use tools for purposes not intended.

- **Do not use tools in an unreasonable manner.**

When the specifications are followed, tools can be used efficiently and safely.

- **Secure workpieces.**

Where possible use clamps or a vise to hold the work. It is safe to hold the workpieces by hand and both hands can be used for operation.

Handling tools

WARNING

- **Storing the tool**

When the tool is not used, store the tool in a dry location. Also, store the tool out of the reach of children. For some tools, the storage temperature and humidity are specified. Store the tool in an appropriate location.

- **Be cautious about how the tool is carried.**

Do not carry the tool with your hand touching the operation switch.

- **Do not leave the tool while the tool is still running.**

Do not leave the work area until you turn off the operating switch, remove the power source and the tool completely stops.

- **Do not allow the following chemicals to come into contact with the tool, as parts could deteriorate.**

Acetone, benzine, thinner, ketone, ether, trichloroethylene and other similar chemicals

Maintenance and Inspection

WARNING

- **Do not disassemble or alter the tool.**

Using the tool after disassembling or remodeling it could cause an accident or injury.

- **Inspect tip tools and accessories.**

Always inspect tip tools and accessories for damage or deterioration before attaching them to the tool.

If damage or deterioration is found, request repair from the retailer where you purchased the tool or the nearest NITTO service member store.

- **Inspect for damaged sections.**

Sufficiently check for damage on accessories or other parts, that the tool operates normally, and that work can be performed appropriately.

If there are accessories or parts that have been damaged or could hinder work, request repair from the retailer where you purchased the tool or the nearest NITTO service member store.

- **Request repair from a dedicated store.**

For repair or replacement of parts, request service from the retailer where you purchased the tool or the nearest NITTO service member store.

Repair requires special knowledge and skills. If repair is performed at a place other than a specialty store, the tool may not demonstrate its full performance or it could lead to an accident or injury.

Request repair with the failed status kept intact. When requesting a repair, do not throw away damaged parts. It could be important information for investigating the failure cause so do not change the status.

- **Use genuine parts.**

If inappropriate parts are used, it could cause accident or injury.

- **Genuine parts are listed in the instruction manual or brochure. Inquire at the retailer where you purchased the tool or the nearest NITTO service member store.**

- **Do not remove the labels or plates on the tools.**

If labels or plates are broken or peeling, for a replacement label or plate contact the retailer where you purchased the tool or the nearest NITTO service member store.

General Pneumatic Tool Safety Warnings

WARNING

- **Use the tool with proper air pressure.**

If the air pressure is high, the rotation speed and reciprocation frequency become faster, causing damage such as damage or accelerated wear. Also, unexpected accidents could occur.

- **Connect the tool to air piping.**

In some factories, other than air piping, there may be other piping such as oxygen, nitrogen, gas, etc. Before connecting to piping, make sure it is the correct piping.

- **Do not start the tool carelessly.**

Turn off the operation switch, then attach the Connecting Hose to the tool.

- **When attaching, removing, and maintaining accessories, make sure to detach the Connecting Hose from the tool.**

- **Be cautious about exhaust.**

Pneumatic tool exhaust contains oil and drainage, etc. Be careful about the exhaust direction so that the exhaust does not directly hit people nearby.

- **Do not allow sources of electricity to touch the tool.**

The pneumatic tool is not insulated against contact by electric sources. Because there is a risk of electric shock, do not allow sources of electricity to touch the tool.

CAUTION

- **Handle the tool with care.**

Rough handling could cause accidents or malfunctions. Do not exert an impact on the tool by throwing or dropping it.

- **Handle the Connecting Hose with care.**

Do not carry the tool by holding the Connecting Hose, and do not pull the Connecting Hose to remove it.

Safety Warnings for PNEUMATIC DIE GRINDER

The following warnings are those required to be displayed as instructed by ISO11148-9.

General Safety Rules

WARNING

- **For multiple hazards, read and understand this instruction manual before installing, operating, repairing, maintaining, changing accessories on, or working near this tool. Failure to do so can result in serious bodily injury.**

- **Only qualified and trained operators should install, adjust or use this tool.**

- **Do not modify this tool. Modifications can reduce the effectiveness of safety measures and increase the risks to the operator.**

- **Do not discard this instruction manual; hand it to the operator.**

- **Do not use this tool if the tool has been damaged.**

- **This tool shall be inspected periodically to verify the ratings and markings. When a label/nameplate is damaged, worn or missing, contact the retailer where you purchased the tool or the nearest NITTO KOHKI's overseas affiliates/offices (see the back cover of this manual) directly for a replacement.**

Projectile Hazards

WARNING

- Be aware that failure of the workpiece or accessories, or even of the inserted tool itself can generate high-velocity projectiles.
- Always wear impact-resistant eye protection while operating this tool. The grade of protection required should be assessed for each operation.
- Ensure that the workpiece is securely fixed.
- Check regularly that the speed of this tool is not higher than the speed marked on it. These speed checks shall be carried out without the abrasive product mounted and in accordance with the instructions given by the manufacturer.
- Ensure that sparks and debris resulting from use do not create a hazard.
- Disconnect this tool from the energy supply before changing the abrasive product and servicing.
- The risks to others should also be assessed at this time.

Entanglement Hazards

WARNING

- Choking, scalping and/or lacerations can occur if loose clothing, personal jewelry, neckwear, hair or gloves are not kept away from the tool and its accessories.

Operating Hazards

WARNING

- Avoid contact with the rotating spindle and mounted wheel to prevent cutting of hands and other body parts.
- Use of this tool can expose the operator's hands to hazards, including cuts, abrasions and burns. Wear suitable gloves to protect hands.
- Operators and maintenance personnel shall be physically able to handle the bulk, weight and power of the tool.
- Hold the tool correctly; be ready to counteract normal or sudden movements and have both hands available.
- Maintain a balanced body position and secure footing.
- Release the start-and-stop device if the energy supply is interrupted.
- Use only lubricants recommended by the manufacturer.
- Personal protective safety glasses shall be used; suitable gloves and protective clothing are recommended.
- The rotary file shall not be operated at a speed exceeding the rated speed.
- For overhead work, wear a safety helmet.
- Be aware that the rotary inserted tool may continue to rotate for a while even after the start-and-stop device has been released.
- Explosion or fire can occur depending on the type of material and the working condition.

Repetitive Motion Hazards

WARNING

- When using this tool to perform work-related activities, the operator may experience discomfort in the hands, arms, shoulders, neck or other parts of the body.
- While using this tool, the operator should work in a comfortable posture while maintaining secure footing and avoiding awkward or off-balance postures. The operator should change posture during extended tasks; this can help avoid discomfort and fatigue.
- If the operator experiences symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensations or stiffness, these warning signs should not be ignored. The operator should tell their employer and consult a qualified health professional.

Accessory Hazards

WARNING

- Disconnect the tool from the energy supply before fitting or changing the inserted tool or accessory.
- Use only accessories and consumables that are the sizes and types recommended by the manufacturer of this tool; do not use accessories or consumables of other types or sizes.
- Avoid direct contact with the inserted tool during and after use, as it can be hot or sharp.
- Check that the maximum operating speed of the inserted tool is equal or exceeds the rated speed marked on the tool.
- Never mount a grinding wheel, cut-off wheel or router cutter on a die grinder. A grinding wheel that bursts can cause very serious injury or death.
- Do not use mounted wheels that are chipped or cracked, or that could have been dropped.
- Use only permitted inserted tools of the correct shaft diameter.
- Pay attention to the fact that the permitted speed of the mounted point has to be lowered due to the increase of the length of the shaft between the end of the collet and the mounted point (overhang). Make sure that the minimum gripping length of 10 mm is observed (see the recommendations of the manufacturer of mounted points).
- Be aware of the risk of mismatching the diameter of the mounted point's shaft and the diameter of the collet.

Workplace Hazards

WARNING

- Slips, trips and falls are major causes of workplace injury. Be aware of slippery surfaces caused by the use of the tool and also of trip hazards caused by the air line or hydraulic hose.
- Proceed with care in unfamiliar surroundings. There can be hidden hazards, such as electricity or other utility lines.
- This tool is not intended for use in potentially explosive atmospheres and is not insulated against contact with electric power.
- Ensure that there are no electrical cables, gas pipes, etc., which can cause a hazard if damaged by the use of the tool.

Dust and Fume Hazards

WARNING

- Dust and fumes generated when using this tool can cause ill health (for example cancer, birth defects, asthma and/or dermatitis); risk assessment and implementation of appropriate controls for these hazards are essential.
- Risk assessment should include risks such as the dust created by the use of the tool and the potential for disturbing existing dust.
- Operate and maintain this tool as recommended in these instructions to minimize dust or fume emissions.
- Direct the exhaust so as to minimize disturbance of dust in a dust-filled environment.
- Where dust or fumes are created, the priority shall be to control them at the point of emission.
- All integral features or accessories for the collection, extraction or suppression of airborne dust or fumes should be correctly used and maintained in accordance with the manufacturer's instructions.
- Select, maintain and replace the consumable or inserted tool as recommended in the instruction handbook to prevent an unnecessary increase in dust or fumes.
- Use respiratory protection in accordance with the employer's instructions and as required by occupational health and safety regulations.
- Working with certain materials creates emissions of dust and fumes, causing a potentially explosive environment.

Noise Hazards

WARNING

- Exposure to high noise levels can cause permanent, disabling hearing loss and other problems, such as tinnitus (ringing, buzzing, whistling or humming in the ears). Therefore, risk assessment and implementation of appropriate controls for these hazards are essential.
- Appropriate controls to reduce the risk can include actions such as damping materials to prevent workpieces from “ringing”.
- Use hearing protection in accordance with the employer's instructions and as required by occupational health and safety regulations.
- Operate and maintain this tool as recommended in the instruction handbook to prevent an unnecessary increase in the noise level.
- Select, maintain and replace the consumable or inserted tool as recommended in the instruction handbook to prevent an unnecessary increase in noise.
- If this tool has a silencer, always ensure it is in place and in good working order when the tool is being operated.
- The noise-emission value in this manual is measured in accordance with ISO standards. Since the real value may change depending on the work condition, please use this tool with measurements in the actual condition. Please don't operate beyond the time set by the region where the tool is used.

Vibration Hazards

WARNING

- Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms.
- Wear warm clothing when working in cold conditions and keep your hands warm and dry.
- If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using this tool, tell your employer and consult a physician.
- Operate and maintain this tool as recommended in the instruction handbook to prevent an unnecessary increase in vibration levels.
- Select, maintain and replace the consumable or inserted tool as recommended in the instructions handbook to prevent an unnecessary increase in vibration levels.
- Support the mass of the tool in a stand, tensioner or balancer, if possible.
- Hold the tool with a light but safe grip, taking account of the required hand reaction forces, because the risk from vibration is generally greater when the grip force is higher.
- An improperly mounted or damaged inserted tool can cause excessive vibration levels.
- The vibration-emission value in this manual is measured in accordance with ISO standards. Since the real value may change depending on the work condition, please use this tool with measurements in the actual condition. Please don't operate beyond the time set by the region where the tool is used.

Additional Safety Instructions

WARNING

- Air under pressure can cause severe injury:
 - —always shut off air supply, drain hose of air pressure and disconnect tool from air supply when not in use, before changing accessories or when making repairs;
 - —never direct air at yourself or anyone else.
- Whipping hoses can cause severe injury. Always check for damaged or loose hoses and fittings.
- Whenever universal twist couplings (claw couplings) are used, lock pins shall be installed and whip check safety cables shall be used to safeguard against possible hose-to-tool or hose-to-hose connection failure.
- Do not exceed the maximum air pressure stated on the tool.
- Never carry an air tool by the hose.
- When a tool is taken permanently out of service, it is advised that the tool be disassembled and degreased, and parts be separated by material and recycled locally in the appropriate manner.

Product Specific Safety Rules

The Word "attachment" in the sentences below refers to mounted wheels and rotary burrs.

WARNING

- **Do not use an attachment with rated revolution speed (the number of revolutions marked on the package) less than the actual revolution speed of the Die Grinder.**
- **Inspect attachment for chips or cracks prior to mounting.**
Do not use an attachment that is chipped or cracked or otherwise damaged. Do not use an attachment that has been soaked in water or any other liquid.
- **Make certain the diameter of the attachment mandrel suits the chuck.**
Fasten the attachment securely. Use a genuine chuck sleeve.
- **After mounting a new attachment, hold the Die Grinder under a steel workbench or inside a casting and run it for at least one minute.**
Make certain no one is within over the rotating surface. If the attachment is defective, improperly mounted or the wrong size and speed, this is the time it will usually fail.
- **Air pressure at the Die Grinder inlet with the Die Grinder running must not exceed 0.6 MPa (6 kgf/cm², 85 psig, 6 bar)**
- **When starting a cold Mounted Wheel, apply it to the work slowly until the Mounted Wheel gradually warms up.**
Make smooth contact with the work and avoid any bumping action or excessive pressure.
- **After a Die Grinder repaired and is issued for use, check the free speed with no attachment mounted using a tachometer to make certain its actual speed at 0.6 MPa (6 kgf/cm²) does not exceed rated speed stamped or printed on the name plate.**
Die Grinders in use on the job must be similarly checked at least once each shift, When checking, the Adjust Valve of the tool should be set for maximum speed position.
- **Wear protective glasses and a dustproof mask.**
Operation generates chips and dust particles, etc. which may cause eye and/or respiratory injury: Always use PPE (Personal Protective Equipment) for eye and respiratory protection.
- **Do not put any inflammable liquid or use the grinding/sanding tool in a potentially explosive atmosphere as there is a possibility of sparks when grinding which could cause a fire/explosion.**
- **When you replace or adjust the cutting tool or parts, be sure to detach the tool from the air hose.**

1 Application

This is handheld Pneumatic die grinder for grinding workpieces using a mounted wheel or a rotary burr.

2 Checking Inside the Package

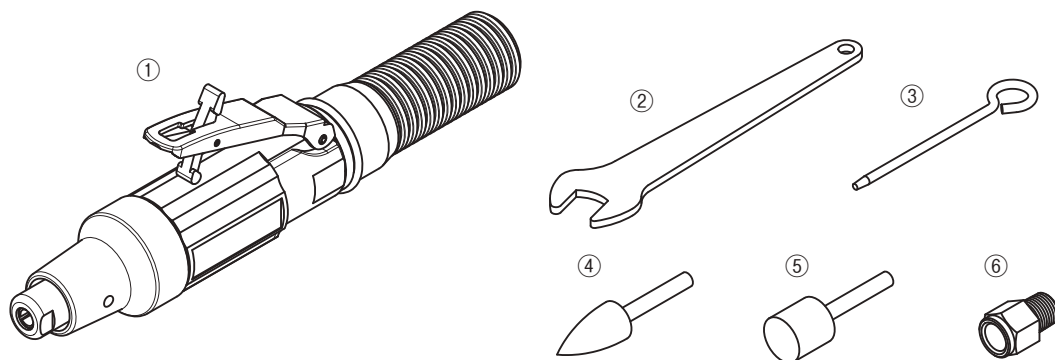
When you open the package box, check the contents of the package and also check for any damage that may have occurred during transportation.

If an abnormality is found, request service from the retailer where you purchased the tool or the nearest NITTO service member store.

L-25B

	Package Contents	Qty	Check
①	L-25B Main Unit	1	
②	Single Ended Spanner 14	1	
③	Chuck Pin	1	
④	Mounted Wheel No.2	1	
⑤	Mounted Wheel No.3	1	

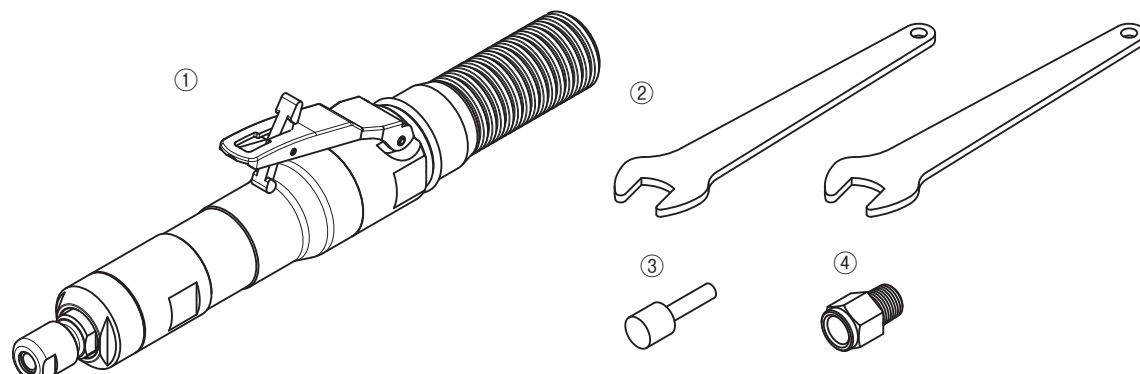
	Package Contents	Qty	Check
⑥	Bushing R1/4xNPT1/4	1	
⑦	Instruction Manual (This Document)	1	
⑧	Declaration of Conformity	1	
⑨	Caution for Use	1	



L-35C

	Package Contents	Qty	Check
①	L-35C Main Unit	1	
②	Single Ended Spanner 14	2	
③	Mounted Wheel 13x13x6x38	1	
④	Bushing R1/4xNPT1/4	1	

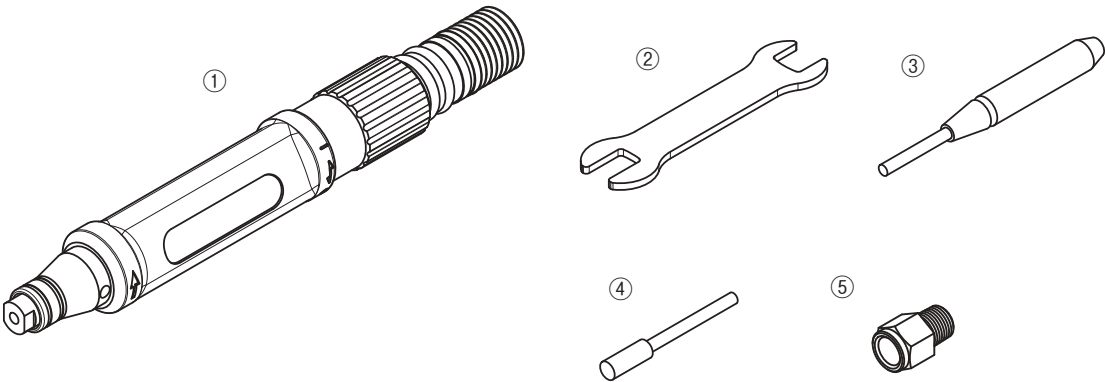
	Package Contents	Qty	Check
⑤	Instruction Manual (This Document)	1	
⑥	Declaration of Conformity	1	
⑦	Caution for Use	1	



AL-55A

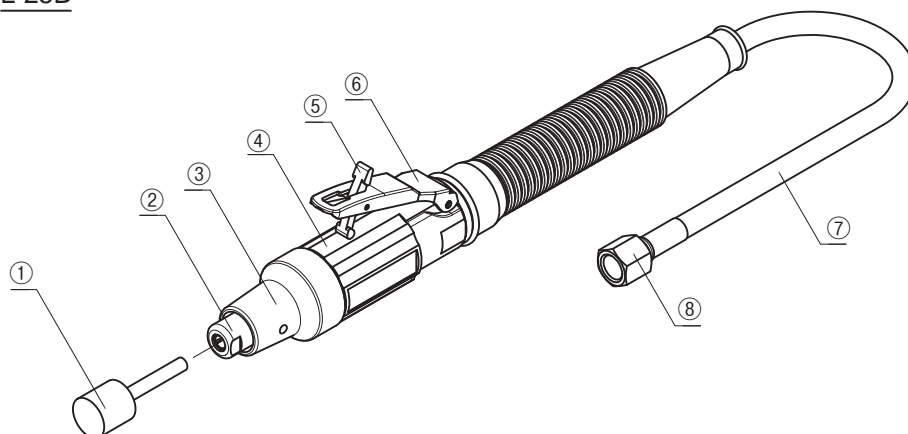
	Package Contents	Qty	Check
①	AL-55A Main Unit	1	
②	Spanner 7×9	1	
③	Lock Wrench	1	
④	Mounted Wheel 5×13×3	1	
⑤	Bushing R1/4×NPT1/4	1	

	Package Contents	Qty	Check
⑥	Instruction Manual (This Document)	1	
⑦	Declaration of Conformity	1	
⑧	Caution for Use	1	



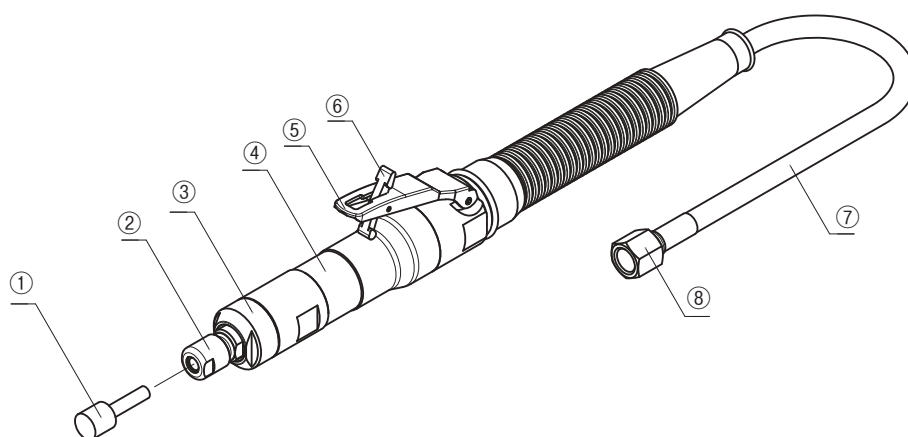
3 Part Names

L-25B



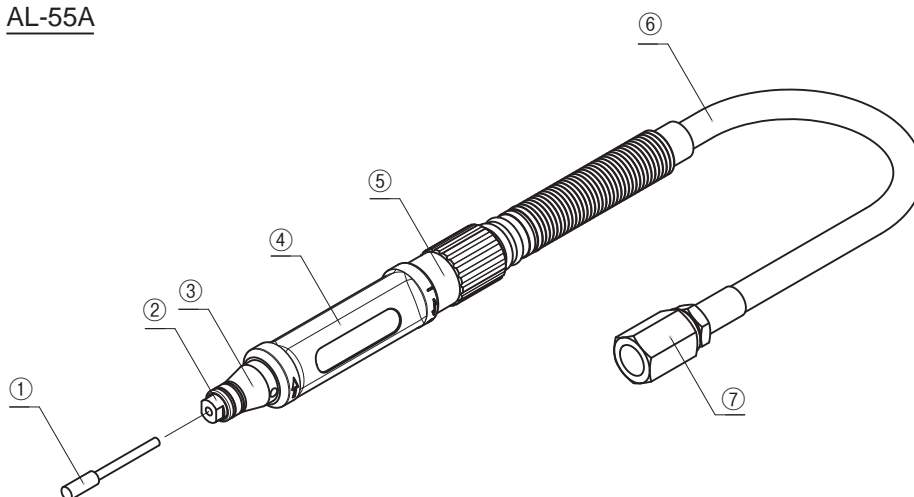
- ① Mounted Wheel
- ② Chuck Nut
- ③ Lock Ring
- ④ Housing
- ⑤ Lock Lever
- ⑥ Throttle Lever
- ⑦ Air Hose
- ⑧ Hose Nipple

L-35C



- ① Mounted Wheel
- ② Chuck nut
- ③ Front Cover
- ④ Housing
- ⑤ Throttle Lever
- ⑥ Lock Lever
- ⑦ Air Hose
- ⑧ Hose Nipple

AL-55A



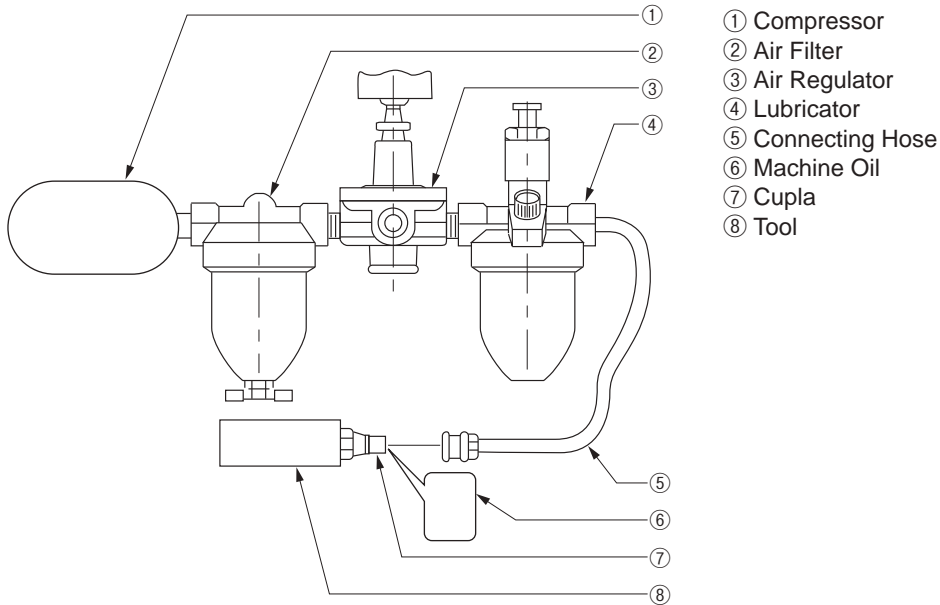
- ① Mounted Wheel
- ② Chuck nut
- ③ Front Cover
- ④ Housing
- ⑤ Valve Ring
- ⑥ Air Hose
- ⑦ Socket

4 Air Supply

⚠ CAUTION

- **Remove drainage before stating work.**

When drainage enters the tool, the vicinity of the exhaust port freezes, which could cause a loss of power.



Air pressure used

Use the tool with air pressure at 0.6 MPa. If the pressure is too low, the tool cannot demonstrate the required performance. If it is too high, it could damage parts of the tool. Use an Air Regulator (③) to adjust the pressure to the appropriate level.

Air line

Use a Connecting Hose (⑤) with an internal diameter of 9.5 mm (3/8") between the Compressor (①) and the tool (⑧). Compressed air exits the Compressor and cools and moisture condenses. Some moisture could condense inside the Connecting Hose and get inside the tool, causing a malfunction. Install the Air Filter (②) and Lubricator (④) between the Compressor and the tool.

Machine oil

Install a Lubricator between the Compressor and the tool, and be sure to use machine oil (ISO VG-10).

Failure to do so could cause damage to the tool. Also, if lubricating oil with high viscosity is used, it could cause performance degradation.

Refueling

Each day before starting work detach the Connecting Hose and refill a few drops of machine oil (ISO VG-10) (⑥) from the Coupler (⑦) to the tool.

After refueling, connect the Connecting Hose and perform idle operation for a few seconds to allow the oil to blend in the entire tool.

5 Preparation

⚠ WARNING

- Do not use any attachment for which the operating speed is lower than the actual free speed of the grinder.
- The attachment mandrel shall be inserted to the full depth of the gripping jaws of the grinder chuck.

Attachments

Selecting Attachments

The maximum speed of an attachment is determined by the factors listed below. Use attachments which have a strength exceeding the speed of this tool.

- (1) Shape and size of the attachment
- (2) Size of the mandrel
- (3) Overhang of the mandrel
- (4) Wheel specification

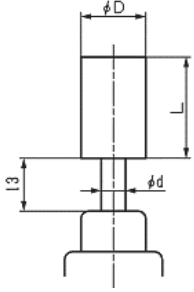
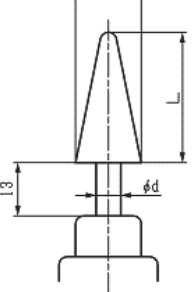
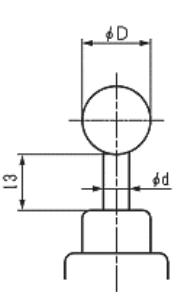
Mounted Wheel Attachment

⚠ WARNING

- Be sure to dress the grinding face of the Mounted Wheel before using it.

- Refer to the table below when selecting Mounted Wheels. When an unmarked Mounted Wheel is to be used, refer to the manufacturer of the wheel and select one which is safe.
- For 6.0 mm or 3.0 mm mandrels with 13 mm max overhang.

(mm)

			
L-25B	D max=19 L max=25 d=6.0	D max=16 L max=32 d=6.0	D max=16 d=6.0
L-35C	D max=16 L max=19 d=6.0	D max=13 L max=19 d=6.0	D max=10 d=6.0
AL-55A	D max=6 L max=10 d=3.0	D max=5 L max=13 d=3.0	D=6 d=3.0

Rotary Burr Attachment

- Squeeze the Rotary Burr lightly against the face to be ground and feed the Rotary Burr in the right-to-left direction.
- Using a double-cut Rotary Burr is recommended.
- Insert the Rotary Burr as deepest as possible and fastened.
- For L-25B, L-35C

Use the blade section not more than 10 mm in diameter.

- For AL-55A

Use the blade section not more than 6.4 mm in diameter and 13 mm or less in length and the shaft 30 mm or less in length.

Mounting and Removing Mounted Wheels and Rotary Burrs

⚠ WARNING

- Be sure to turn off the air supply and disconnect the air hose.

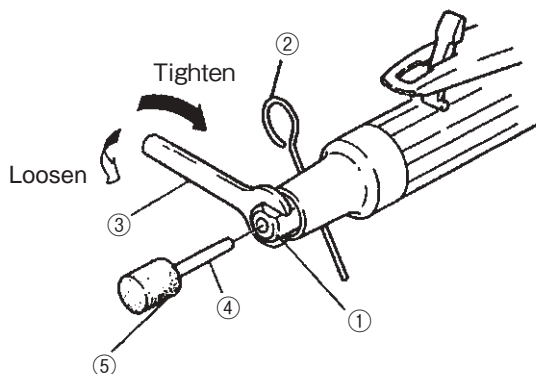
For L-25B

● Mounting

After inserting the Chuck Pin (②) in the Lock Ring, insert the mandrel (④) of the Mounted Wheel (⑤) in the Chuck and secure it by turning the Chuck Nut (①) with the Spanner 14 (③) in a clockwise direction. The Chuck Pin (②) serves to prevent rotation at this time.

● Removal

Turn the Chuck Nut (①) in a counterclockwise direction with the Spanner 14 (③) and withdraw the mandrel (④) from the chuck.



- ① Chuck Nut
- ② Chuck Pin
- ③ Spanner 14
- ④ Mandrel
- ⑤ Mounted Wheel or Rotary Burr

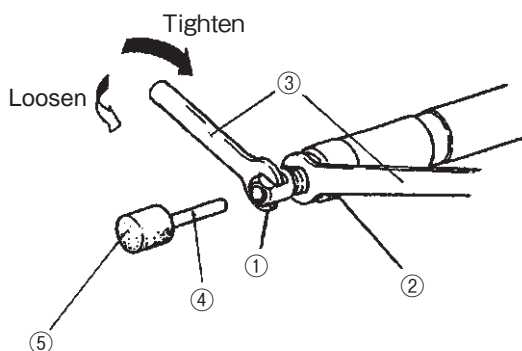
For L-35C

● Mounting

Hold the body of the chuck with a Spanner 14 (③) and insert the Rotary Burr (⑤) mandrel (④). Secure the Rotary Burr (⑤) by turning the Chuck Nut (①) with another Spanner 14 (③) in a clockwise direction.

● Removal

Turn the Chuck Nut (①) in a counterclockwise direction with the Spanner 14 (③) and withdraw the mandrel (④) from the chuck.



- ① Chuck Nut
- ② Chuck Body
- ③ Spanner 14
- ④ Mandrel
- ⑤ Mounted Wheel or Rotary Burr

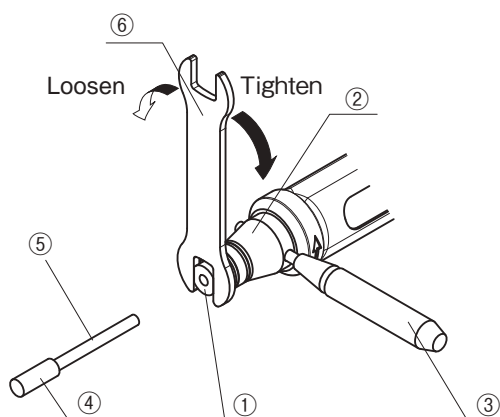
For AL-55A

● Mounting

Align the holes of the Chuck Nut (①) and the Front Cover (②) and Insert the lock wrench (③). Insert the Mandrel (⑤) into the chuck and turn the Chuck Nut (①) clockwise with a Spanner 7×9 (⑥) to fix the Mandrel (⑤).

● Removal

Turn the Chuck Nut (①) in a counterclockwise direction with the Spanner 7×9 (⑥) and withdraw the mandrel (⑤) from the chuck.



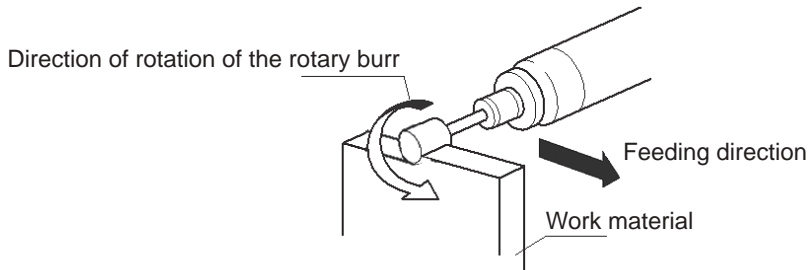
- ① Chuck Nut
- ② Front Cover
- ③ Lock Wrench
- ④ Mounted Wheel or Rotary Burr
- ⑤ Mandrel
- ⑥ Spanner 7×9

6 How to Operate the Tool

⚠ WARNING

- Always wear eye protection during operations.

- Start the equipment. Then squeeze the equipment lightly against the workpiece and move AIR SONIC in the direction of the arrow, as shown in Fig.
- Strong push against the workpiece will not improve working efficiency. Such strong push may cause damage to the Mounted Wheel and the Rotary Burr.

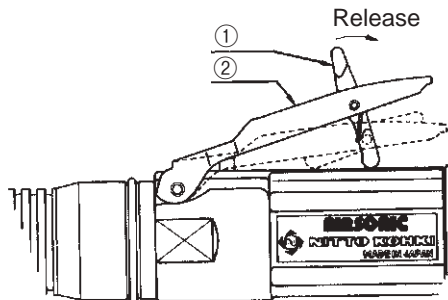


Start and Stop

For L-25B, L35C

To start: Release the Lock Lever (①) and grasp the Throttle Lever (②).

To stop : Release the Throttle Lever (②).

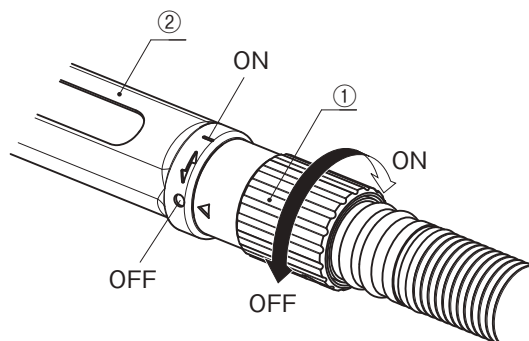


- ① Lock Lever
- ② Throttle Lever

For AL-55A

To start: Turn the Valve Ring (①) clockwise and match [▲] to [■] on the Housing (②).

To stop : Turn the Valve Ring (①) counterclockwise and match [▲] to [●] on the Housing (②).



- ① Housing
- ② Valve Ring

Adjust Valve

⚠ WARNING

- Be sure to keep hands clear of moving parts.

For L-25B, L-35C

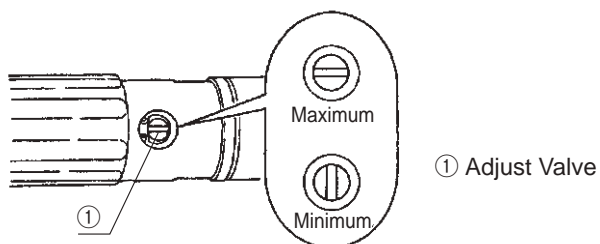
The desired speed between maximum and minimum speed is obtainable by turning the groove of valve in a clockwise or counterclockwise direction with screwdriver.

● Maximum speed

Position the groove of Adjust Valve (①) horizontal to main body.

● Minimum speed

Position the groove of Adjust Valve (①) vertical to main body.



For AL-55A

The motor speed can be adjusted in the range from 0 to the maximum speed by adjusting the opening of the valve. Adjust the motor speed according to the purpose of use.

7 Thread Size of Hose Fitting

The product comes with a metal fitting with R (metric) thread. Connect the Bushing R thread × NPT thread included as standard accessories, if you would like to have American NPT thread instead.

8 Storage

⚠ CAUTION

- When tool is not used, store it out of reach of children.

Avoid storing the tool in a location subject to high humidity. If the tool is left as it is used, residual moisture on the inside can cause rusting. Before storing, and after operation, oil the tool at the air inlet with machine oil ISO VG-10 and run it for a short time.

9 Optional Parts

L-25B

Part No.	Description	Qty
TA9A277	Mounted Wheel No.1	5 pcs
TA9A278	Mounted Wheel No.2	5 pcs
TA9A279	Mounted Wheel No.3	5 pcs
TA9A280	Mounted Wheel No.4	5 pcs
TA9A281	Mounted Wheel No.5	5 pcs
TA9A282	Mounted Wheel No.6	5 pcs
TA9A283	Mounted Wheel No.7	5 pcs
TA9A284	Mounted Wheel No.8	5 pcs

L-35C

Part No.	Description	Qty
TP10594	Rotary Burr No.1	1
TP10595	Rotary Burr No.2	1
TP10596	Rotary Burr No.3	1
TP10597	Rotary Burr No.4	1
TP10598	Rotary Burr No.5	1
TP10599	Rotary Burr No.6	1
TP10600	Rotary Burr No.7	1
TP10601	Rotary Burr No.8	1

AL-55A

Part No.	Description	Qty
TB00137	Mounted Wheel 5×13×3	10 pcs

10 Ordering Service Parts

For further operational and handling information or for replacement of parts and components, contact the company from whom you purchased the tool or an authorized dealer.

In ordering parts and components give each part number, part name and quantity required. Use only NITTO genuine parts.