

OPERATION AND MAINTENANCE MANUAL

- SK-9131L
- SK-9131LF
- SK-9231L
- SK-9231LF

METAL ASSEMBLY SCREW DRIVER



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NOTICE

Metal Assembly Screwdrivers are designed for installing threaded fasteners in light industrial and appliance manufacturing applications.

KILEWS is not responsible for customer modification of tools for applications on which KILEWS was not consulted.

WARNING

Important safety information enclosed.

Read all these instructions before placing tool in service or operation this tool and save these instructions. It is the responsibility of the employer to place the information in this manual into the hands of the operator. Failure to observe the following warnings could result in injury. When using electric tools, Basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following:

1.Important Safety Instructions

2.Grounding Instructions

3.Operations Cautions

4.Specifications

5.Description Of Operation

6.Torque Adjustment Operation

7.Accessories

8.Servicing

1. Important Safety Instructions

- 1) Keep work area clean**
Cluttered areas and benches invite injuries.
- 2) Consider work area environment**
Do not expose power tools to rain. Do not use power tools in damp or wet locations. Keep work area well lit. Do not use power tools where there is risk to cause fire or explosion.
- 3) Guard against electric shock**
Avoid body contact with earthed or grounded surfaces (e.g. pipes, radiators, ranges, refrigerators).
- 4) Keep children away**
Do not let visitors touch the tool or extension cord. All visitors should be kept away from work area.
- 5) Store idle tools**
When not in use, tools should be stored in a dry, high or locked up place, out of reach of children.
- 6) Do not force the tool**
It will do the job better and safer at the rate for which it was intended.
- 7) Use the right tool**
Do not force small tools or attachments to do the job of a heavy duty tool. DO not use tools for purposes not intended; for example, do not use circular saws to cut tree limbs or logs.
- 8) Dress properly**
Do not wear loose clothing or jewellery, they can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protecting hair covering to contain long hair.
- 9) Use safety glasses**
Also use face or dust mask if the cutting operation is dusty.
- 10) Connect dust extraction equipment**
If devices are provided for the connection of dust extraction and collection facilities ensure these are connected and properly used.
- 11) Do not abuse the cord**
Never carry the tool by the cord or yank it to disconnect it from the socket, Keep the cord away from heat, oil and sharp edges.
- 12) Secure work**
Use clamps or a vice to hold the work. It is safer than using your hand and frees both hands to operate the tool.
- 13) Do not overreach**
Keep proper footing and balance at all times.
- 14) Maintain tools with care**
Keep cutting tools sharp and clean for better and safer performance. Follow instructions for lubrication and changing accessories. Inspect tool cord periodically and if damaged have it repaired by an authorized service facility. Inspect extension cords periodically and replace, if damaged. Keep handles dry, clean and free from oil and grease.
- 15) Disconnect tools**
When not in use, before servicing and when changing accessories such as blades, bits and cutters.

16) Remove adjusting keys and wrenches

Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

17) Avoid unintentional starting

Do not carry a plugged-in tool with a finger on the switch. Ensure switch is off when plugging in.

18) Use outdoor extension leads

When tool is used outdoors, use only extension cords intended for outdoor use.

19) Stay alert

Watch what you are doing. Use common sense. Do not operate tool when you are tired.

20) Check damaged parts

Before further use of use the tool, a guard or other part is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, free running of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated in this instruction manual. Have defective switches replaced by an authorized service facility. Do not use the tool if the switch does not turn it on and off.

21) Warning

The use of any accessory or attachment, other than those recommended in this instruction manual, may present a risk of personal injury.

22) Have your tool repaired by a qualified person

This electric tool is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.

WARNING !



**DO NOT OPERATE THIS TOOL WITHOUT
PROTECTIVE EARTH CONNECTED**

2. Grounding Instructions

The tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with a three-conductor cord and three-prong grounding-type plug to fit the proper grounding-type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal.

Green and yellow----- Earth
Blue ----- Neutral
Brown ----- Live

3. Operations Cautions

- 1) Whenever changing a bit, make certain the Forward / Reverse Switch is in the “ OFF “ position and tool is unplugged.
- 2) Do not allow chemicals such as acetone, benzene, thinner, trichloroethylene ketone, or other similar chemicals to come in contact with the screwdriver housing as damage will result.
- 3) Do not drop or abuse the screwdriver.
- 4) Do not adjust the torque setting higher than 8 on the torque scale.
- 5) There should be a tool rest interval when cycles three seconds or longer. This tool is intended for a duty cycle of 0.8 sec on, 3.2 sec off.
- 6) Do not tighten more than 800 tapping screws (size: 3mm. Length: 5mm) per hour.
- 7) Do not use this screwdriver for tightening wood screws. This is “ Metal Assembly Screw Driver ”
- 8) Do not operate the Forward / Reverse Switch the motor is running.
- 9) Whenever a tool is not being used, move the Forward / Reverse Switch to the “OFF” position and unplug the screwdriver.

CAUTION

- Do not drop or abuse the tool.
- Whenever a tool is not being used, position the Power Switch to the “OFF” position and unplug the power cord.

4. Specifications

DATA 1 (FOR Input Voltage : 110V)

Item		Type	SK-9131L	SK-9131LF
Input Voltage			AC100V; 110V~120V 50HZ/60HZ	
Rated input			50W	
Bit torque	Kgf.cm		5-20	4-15
	Lbf.in		4.4-17.4	3.5-13.0
	N.m		0.49-1.96	0.39-1.47
Rev speed at no load	Rpm		1000	2000
Metal assembly screw Dia(mm)	Machine screw		2.6-4.0	2.0-3.5
	Tapping screw		2.0-3.5	2.0~3.0
Torque Accuracy (%)			±3%	±3%
Torque Adjustment			Stepless	
Weight (g)			620	
Length (mm)			264	
Model of Torque Fixing Ring			KC-2	
Model of Suspension Rack			KH-1	
Bit Type			HEX 5mm,HEX 6.35mm	

* 1N.m=10.2Kgf.cm 1N.m=8.98Lbf.in

DATA 2 (FOR Input Voltage : 220V)

Item		Type	SK-9231L	SK-9231LF
Input Voltage			AC220V 50HZ/60HZ	
Rated input			50W	
Bit torque	Kgf.cm		5-20	4-15
	Lbf.in		4.4-17.4	3.5-13.0
	N.m		0.49-1.96	0.39-1.47
Rev speed at no load	Rpm		1000	2000
Metal assembly screw Dia(mm)	Machine screw		2.6-4.0	2.0-3.5
	Tapping screw		2.0-3.5	2.0-3.0
Torque Accuracy (%)			±3%	±3%
Torque Adjustment			Stepless	
Weight (g)			620	
Length (mm)			264	
Model of Torque Fixing Ring			KC-2	
Model of Suspension Rack			KH-1	
Bit Type			HEX 5mm,HEX 6.35mm	

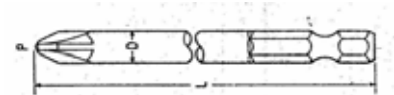
* 1N.m=10.2Kgf.cm 1N.m=8.98Lbf.in

5. Description of Operation

Attaching / detaching bit and bit type

Push up the holder clamp by finger tip, and it will be unlocked. Thus, the bit can be freely attached and detached (single finger notion type) select such a bit whose shank is equal to the size shown below.

Shape of bit : Hexagon, Size of opposite side :5mm or 6.35mm



- Insert the power plug into a receptacle and set the changeover switch to “F” position.
- Apply the bit to the screw head and press the lever or push main body to, then the switch will be turned ON to start the motor running.
- When the screw is tighten and reach the torque that you had set, The tool will stopped automatically.
- To reset the tool by releasing the lever to the original position or releasing the bit From the screw head.
- To return the screw, set the changeover switch to “R” position.

6. Torque Adjustment Operation

To adjust the torque on these screwdrivers. Proceed as follows :

1. Determine the torque output of the tool by checking a tightened Fastener with a torque wrench.
2. Increase or decrease the torque by rotating the Spring Adjusting Ring. Rotating the Ring clockwise to a higher number on the torque Scale increase torque output while rotating the Ring counterclockwise to a lower number decreases the torque output.
3. Check the adjustment with a torque wrench. A number of factors will affect torque output from one job to another. Final torque adjustment should be made at the job through a of series of gradual increase. Always start below the desired torque and work upward.
4. Adjust the bit torque by changing the driving in length of the adjust ring at the end.
5. The relationship between torque scale and bit torque is as shown Ring, in the torque diagram. The figures of torque scale do not indicate bit torque values. However, the clamping torque of screw itself is different form type, size, material of the screw and the material of its mating part. Use it as standard to obtain an appropriate clamping torque.
6. The (Return torque method) in which once-clamped screw is returned with torque wrench or the like is available as one of torque control methods however, note that the measured values by the return torque method generally appear in 10%~30% lower than the actually clamping torque.
7. The torque checker measures the torque of screwdriver. The clamping torque of screw itself is different from the clamped conditions. Understand the correlation between clamping torque values and the torque checker values perform the torque control properly.

CAUTION

1. Also in reverse rotation, the clutch is turned off in such manner as in normal rotation, stopping the motor running. Accordingly, when the screw tightened at a large torque, set it to a higher torque scale.
2. The number from zero to eight on the Torque Scale are reference number only and not an indication of actual torque output.

7. Accessories

1. B I T Type : NO. 1# Bit for screw dia. 2.0~ 2.6mm
NO. 2# Bit for screw dia. 3.0~ 3.5mm

SK-9131L with BIT 1# & 2# 1 Pce. Each
SK-9131LF with BIT 1# & 2# 1 Pce. Each
SK-9231L with BIT 1# & 2# 1 Pce. Each
SK-9231LF with BIT 1# & 2# 1 Pce. Each

2. Spring (Length: 30cm) 1 pce.

3. Carbon Brush :2 Pcs, Those 2 Pcs brush are spare parts.

4. Suspension rack and Torque fixing ring acceptable for use with the tool are available from KILEWS catalogue.

8. Servicing

Maintenance and Inspection:

1. The screw driver must be operated in top condition, one day working hour must be not more than eight hours.
2. Periodically check for wear of motor carbon brush, one day for eight hours use is normal, replace it after every five to six months.
3. Please note don't let the motor get over heated, every minute use 10~15 screws to operate.
4. The frequency use of this electric screw driver is over than eight hours a day, still it needs periodically testing and treatment. Every 5-6 months.
5. Inspect tool cords periodically and if damaged, have them repaired by an authorized service facility. Inspect extension cords periodically and replace if damaged.
6. Do not remove any labels. Replace any damaged label.

CAUTION

1. The use of other than genuine KILEWS replacement parts may Result in decreased tool performance and increased maintenance, and may invalidate all warranties.
2. All repairs and maintenance of this tool and its word must be performed by an authorized service center.
3. KILEWS is not responsible for customer modification of tools for applications on which KILEWS was not consulted.
4. Repairs should by made only by authorized, trained personnel. Consult your nearest KILEWS authorized service center.
5. It is the responsibility of the employer to place the information in this manual into the hands of the operator.

**DO NOT ATTEMPT TO REPAIR THIS
ELECTRIC SCREW DRIVER**

CAUTION

**SAVE THESE INSTRUCTIONS
DO NOT DESTROY**

