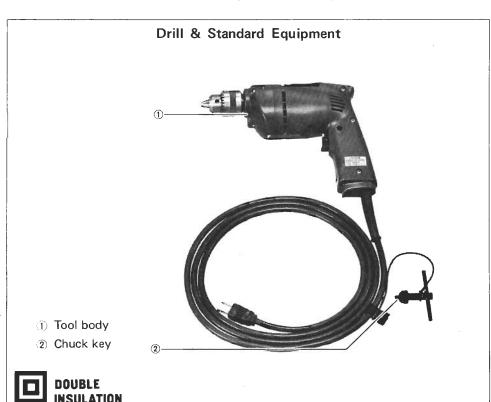


# Trakita Drill

### 10 mm (3/8") MODEL 6510LVR Variable Speed/Reversing

## INSTRUCTION MANUAL



#### **SPECIFICATIONS**

MODEL NO.	Drilling capacities		Continuous rating		No load	Overall	Net	Power
	Steel	Wood	Input	Output	speed	length	weight	cord
6510LVR	10 mm (3/8'')	18 mm (3/4")	330 W	120 W	0 — 1,050 R/min.	242 mm (9-1/2'')	1.48 kg (3.3 lbs)	2.5 m (8.2 ft.)

<sup>\*</sup> Manufacturer reserves the right to change specifications of parts and accessories without notice.

<sup>\*</sup> Note: Specifications of parts and accessories may vary from country to country.

## BEFORE CONNECTING YOUR TOOL TO A POWER SOURCE

#### Be sure you have read all GENERAL POWER TOOL SAFETY RULES

#### **GENERAL SAFETY PRECAUTIONS**

- 1. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
- 2. AVOID DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations. Keep work area well lit. Do not expose power tool in rain.
- 3. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.
- STORE IDLE TOOLS. When not in use, tools should be stored in dry, high or locked-up place—out of the reach of children.
- 5. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
- USE RIGHT TOOL. Don't force small tool or attachment to do the job of a heavyduty tool.
- 7. WEAR PROPER APPAREL. No loose clothing or jewelry to get caught in moving parts. Rubber gloves and footwear are recommended when working outdoors.
- 8. USE SAFETY GLASSES. Use safety glasses with most tools. Also face or dust mask if cutting operation is dusty.
- DON'T ABUSE CORD. Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
- 10. SECURE WORK. Use clamps or vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
- 11. DON'T OVERREACH. Keep proper footing and balance at all times.
- 12. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 13. DISCONNECT TOOLS. When not in use; before servicing; when changing bits.
- 14. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- 15. AVOID ACCIDENTAL STARTING. Don't carry plugged-in tool with finger on switch. Be sure switch is OFF when plugging in.
- 16. OUTDOOR USE EXTENSION CORDS. When tool is used outdoors, use only extension cords suitable for use outdoors and so marked.
- 17. REPLACEMENT PARTS. When servicing use only identical replacement parts.
- 18. USE INSULATED SURFACES. A double insulated tool may be made live if the bit comes in contact with live wiring in a wall, floor, ceiling, etc. Always check the work area for live wires and hold the tool by the insulated surfaces when making "blind" or plunge cuts.

#### PRELIMINARY INSTRUCTIONS

Your electric tool is precision built and manufactured to satisfy the highest standards. For maximum performance, long tool life, and your safety, follow these instructions carefully.

VOLTAGE WARNING: Before connecting the tool to a power source (receptacle, outlet, etc.) be sure the voltage supplied is the same as that specified on the nameplate of the tool. A power source with voltage greater than that specified for the tool can result in SERIOUS INJURY to the user — as well as damage to the tool. If in doubt, DO NOT PLUG IN THE TOOL. Using a power source with voltage less than the nameplate rating is harmful to the motor.

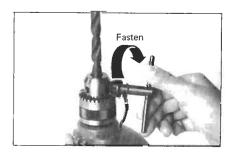
#### SPECIAL PRECAUTIONS WITH DRILL

Always make sure the motor is completely stopped before you throw the reverse switch. If you attempt to change direction of revolution while motor is running, harm will result to the tool.

#### HOW TO USE

#### 1. Chuck

When installing a drill bit with the chuck key, notice that there are three holes in the chuck where the bit should be tightened, not just one. Tighten evenly at all three holes in order (as you would mount a tire).



#### 2. Drilling in Wood

In drilling holes in wood using a wood drill with a guide screw, there is no need to bear down on the tool. The guide screw makes it bore naturally by itself.

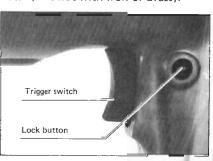
#### 3. Drilling in Metal

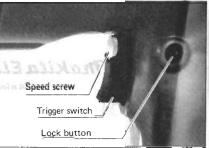
In general, use a cutting lubricant when drilling metal (But not with iron or brass).

#### 4. Speed Control Switch

- Motor speed is in terms of trigger-pressure.
   The tool stops when the trigger is released.
   Constant speeds are obtained by pushing in the lock button; the speed "locks" and the trigger may be released. Grasping it and releasing it again will stop the motor.
- Speed screw for continuous use at desired speed

The speed screw on the trigger can be used together with the lock button to obtain convenient continuous operation at any speed setting from 0-1,050 RPM. This screw is first screwed in (for higher speeds) or out (for lower speeds) for the desired setting. Then the trigger is pulled as far as it will go, and in this position the lock button is pushed in. The trigger can now be released, and the tool will run continuously at the speed it is set for. To stop from this lock position, simply pull the trigger and then release it.

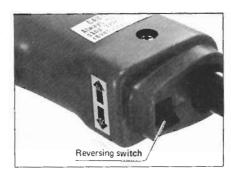




#### 5. Reverse Switch

The reversing switch is found on the heel of the handle. To change the direction of revolution, switch to "F" for right, "R" for left. (Always check the direction before drilling).

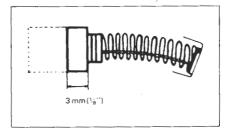
\* Never reverse directions (reversing switch) until the tool has come to a complete stop. Reversing before it stops way ruin the tool.



#### MAINTENANCE

#### Carbon Brush

Replace carbon brushes when they wear down to about 3 mm (1/8'') or sparking will occur. Both brushes should be changed at the same time.



#### Carbon Brush Replacement

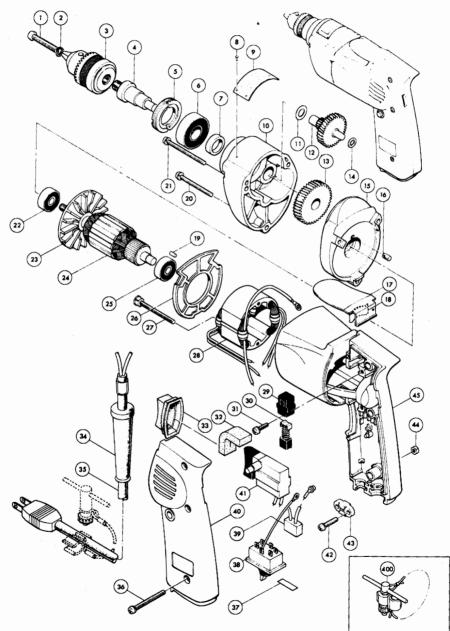
When replacing carbon brushes, follow the below-noted procedure carefully. Improper brush installation can be dangerous.

- 1. Unplug the tool from the power source.
- 2. Remove 3 screws on the handle.
- Notice the way in which the lead wire is positioned and routed to the brush holder from the stator winding.
- 4. Then remove the brush holder set screw.
- 5. Remove the brush holder and take out the old carbon brush. When doing this, keep the terminal connected to the end of the lead wire inside the brush holder.
- Brush holder
  Terminal Lead wire
- 6. Insert the fresh carbon brush inside the brush holder and fit the brush holder back into its original position. Secure with the set screw.
- 7. Should the terminal connected to the end of the lead wire come out of the brush holder when you replace the brush, before reinserting it, route the lead wire of the brush holder that is near the switch BENEATH THE BRUSH HOLDER first. Then insert the terminal back inside the brush holder.

If you notice commutator wear from abrasion, contact your nearest Makita Service Center.

CAUTION: The use of any other accessories not specified in this manual might be hazardous.

# Thakita 10 mm (%") DRILL Model 6510LVR



2 3 3

TEM NO.	PART NO.	NO. USED	DESCRIPTION	NO.	PART NO.	NO. USED	DESCRIPTION	
MAC	HINE			MAG	CHINE			
1	251277-2	1	P. H. Screw M5x18	32	685701-7	1 1	Sponge Sheet	
2	942101-7	1	S. Washer 5	33		1	Dust Cover	
3	763048-0	1	Drill Chuck \$10		421144-7		100 V. – 130 V.	
4	323685-8	1	Spindle		421145-5		200 V. – 250 V.	
5	285804-3	1	Bearing Retainer 19-34	34		1	Cord Guard	
6	211201-7	1	Ball Bearing 6002LLB		682504-0		For Black-White, Blue-Brown, UL & CSA	
7	257053-2	1	Ring 15	l			Listed (SJT & SJ Type), SEV Listed and Draka Cord	
8	953106-2	2	Rivet 0-5		682502-4		For SAA Listed, Spanish and Italian Cord	
9	815390-6	1	Name Plate	35	002502-4	1	CORD ASSEMBLY	
10	156401-1	1	Gear Housing	"		1 '	(Assembled Cord, Plug & Cord Guard)	
11	253215-0	1	F. Washer 8		541049-6		Black-White (With Plug)	
12	226032-1	1	Gear 13-40	-	542005-9		Black-White (With French Type Plug)	
13	221624-1	1	Helical Gear 53		545004-0		Black-White (Without Plug)	
14	253715-0	1	F. Washer 6		548005-7	}	Blue-Brown (Without Plug)	
15	156402-9	1	Gear Housing Cover		551006-6		UL & CSA Listed (SJT Type With Plug)	
16	263002-9	1	Rubber Pm 4		551016-3		UL & CSA Listed (SJ Type With Plug)	
17	342422-1	1	Hook	1	554005-7		SEV Listed (With Plug)	
18	232034-7	1	Leaf Spring		546007-7	1	SAA Listed (With Plug)	
19	263002-9	1	Bubber Pin 4	ŀ	553005-4		Draka (With Plug)	
20	911168-6	1	P. H. Screw M4x40 (With Washer)		552514-0	1	Italian Type (With Plug)	
21	911188-0	2	P. H. Screw M4x60 (With Washer)		555007-6		Spanish Type (With Plug)	
22	211033-2	1	Ball Bearing 608LB	36	911153-9	3	P. H. Screw M4x28 (With Washer)	
23	241802-9	1	Fan 58	37	816016-3	1	Indication Label	
24		1	ARMATURE ASSEMBLY	38	651461-3	1	Reversing Switch	
			(Assembled Items 22, 23, 24 & 25)	39	645006-7	1	Noise Suppressor	
	511331 /		100 V.	40	155300-4	1	Handle Cover	
	511332-6		115 V 130 V.	41		1	Switch	
	511333 3		200 V.	1	651313-8		Double Pole (With Lock Button	
	511334-1		220 V.	1			100 V 130 V.)	
	611335-9	i	230 V. – 250 V.		651211-6		Single Pole (With Lock Button 200 V. – 250 V.)	
25	211028-5	1	Ball Bearing 627LB	42	911131-9	2	P. H. Screw M4x18 (With Washer)	
26	4112190	1	Baffle Plate	43	311131-3	1	Strain Relief	
27	925173-7	2	H. Bolt M4x45 (With Washer)	75	687001-1	1	For Black-White, Blue-Brown, UL & CSA	
28 i	521231-3	1	FIELD ASSEMBLY 100 V.		007001-1		Listed (SJT Type), SAA Listed and Italian Cord	
1	521232-1		115 V. – 130 V.		687002-9		For UL & CSA Listed (SJ Type), SEV	
į.	521234 /		200 V.	l			Listed, Draka and Spanish Cord	
1	<b>62123</b> 6-6		220 V.	44	931102-0	3	H. Nut M4	
1	6212371		230 V. – 250 V.	45	156491-4	1	Motor Housing	
29	643862-4	2	Brush Holder	ACC	ACCESSORY			
30	643057-4	2	Carbon Brush CB-57	400	763203-4	1	Chuck Key S10	
31	911124-6	2	P. H. Screw M4x14 (With Washer)					



## Thakita Electric Works, Ltd.

Anjo, Aichi, Japan