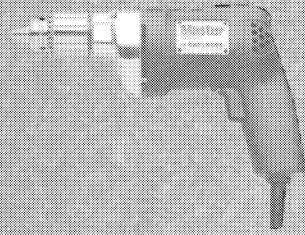
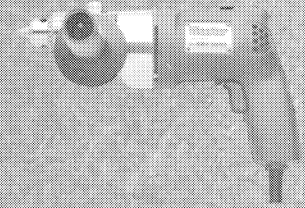


Master
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by BLACK&DECKER.

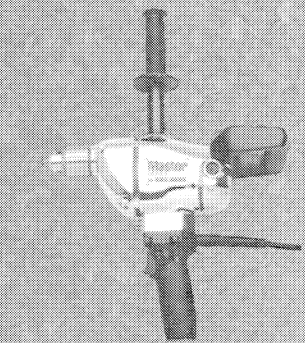
5111 Holgun® 3/8" VSR Drill: Premium quality 3/8" variable speed reversing pistol grip drill designed for long life in heavy-duty professional use. The drill performs well in a wide variety of metals, wood, masonry and composite materials.



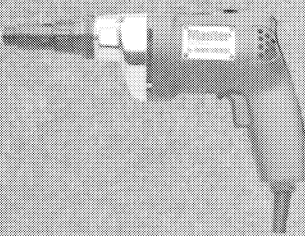
5130 Holgun® 1/2" VSR Drill: Premium quality 1/2" variable speed reversing pistol grip drill with a maximum of power for its compact size. The extremely versatile drill is especially designed for drilling larger diameter holes. The triple gear reduction provides a no-load speed of 600 RPM with very high torque.



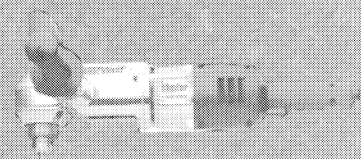
5140 1/2" Spade Handle Drill: Premium quality spade handle drill designed to meet the heaviest industrial and construction demands. It is often used to mix mud in drywall and plastering applications.



5274 Versa-Clutch® Scrugun® VSR Screwdriver: A premium quality adjustable clutch screwdriver designed to drive a wide variety of fastener sizes to perfect tightness in the most demanding situations. The exclusive Versa-Clutch feature allows the user to override the selected torque by varying the pressure applied to the tool.



5158 TimberWolf™ 1/2" Right Angle Drill: Premium quality 1/2" right angle drill designed specifically for plumbers and electricians who need to drill large diameter holes through studs and joists while working in extremely tight quarters.



5159 TimberWolf™ 1/2" Right Angle Drill Kit: The same high quality 1/2" right angle drill with a metal kit box.

Black & Decker (U.S.) Inc.
10 North Park Drive
P.O. Box 798
Hunt Valley, Maryland
21030-0798

Form No. 741350

Printed in U.S.A.

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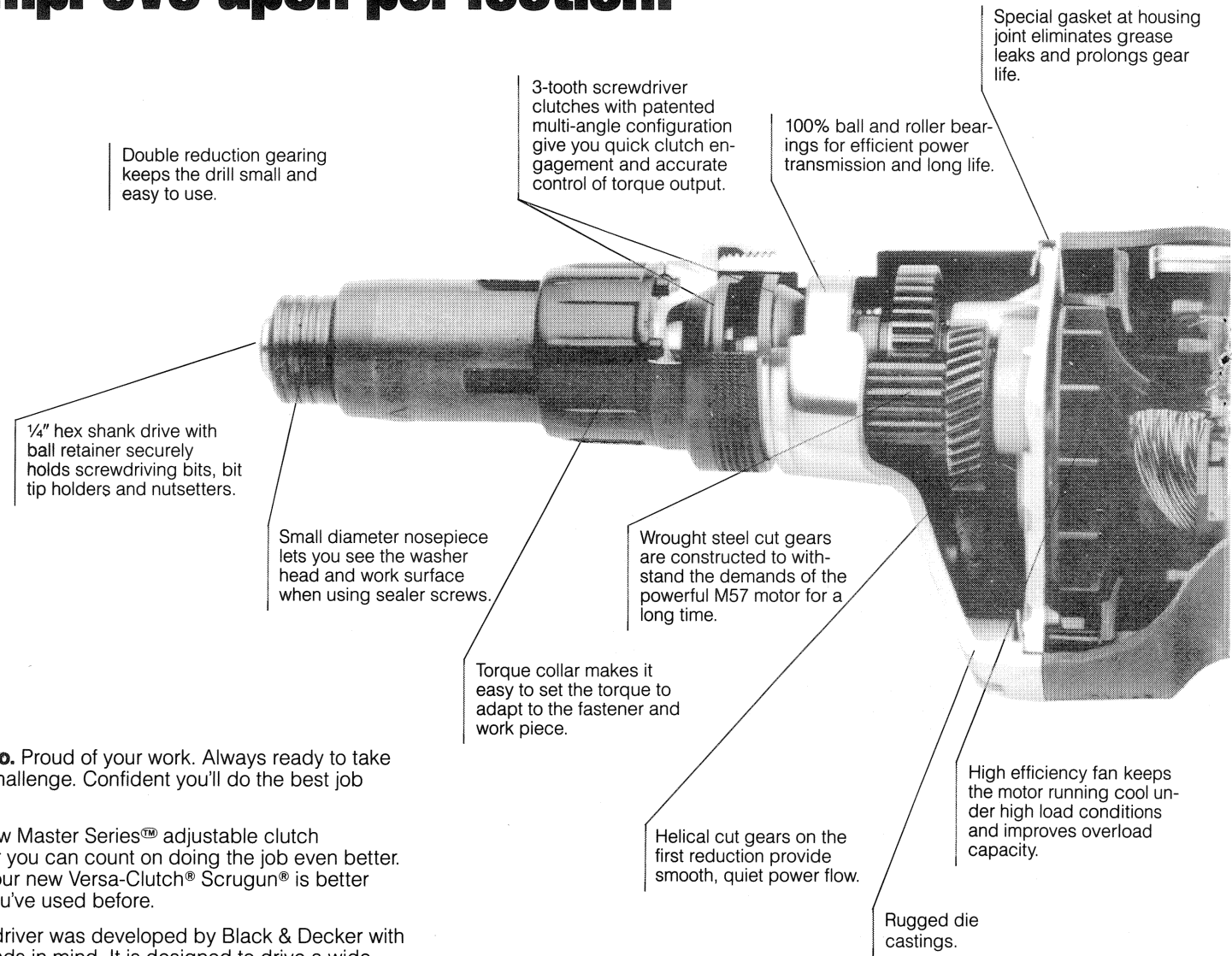
**Instruction
Manual**

**5274
Versa-Clutch®
Scrugun® VSR
Screwdriver**

**Masterpieces of
Power and
Performance**



Finally, a screwdriver designed to improve upon perfection.



You're a pro. Proud of your work. Always ready to take on a new challenge. Confident you'll do the best job possible.

With the new Master Series™ adjustable clutch screwdriver you can count on doing the job even better. Because your new Versa-Clutch® Scrugun® is better than any you've used before.

This screwdriver was developed by Black & Decker with your demands in mind. It is designed to drive a wide variety of fastener sizes to perfect tightness in the most demanding situations. It is especially suitable for driving self-drilling sealer screws into metal. The Master Series™ gives you more of what you want. More power. More durability. More performance. And better. With better design. Better parts. Better service.

You get a lot of power from the 5-amp M57 motor but your Scrugun® is still lightweight and compact.

You get more durability from the 100% anti-friction bearings and wrought steel cut gears.

You get more performance from the helical cut gears on the first reduction that make your drill run smoother and last longer.

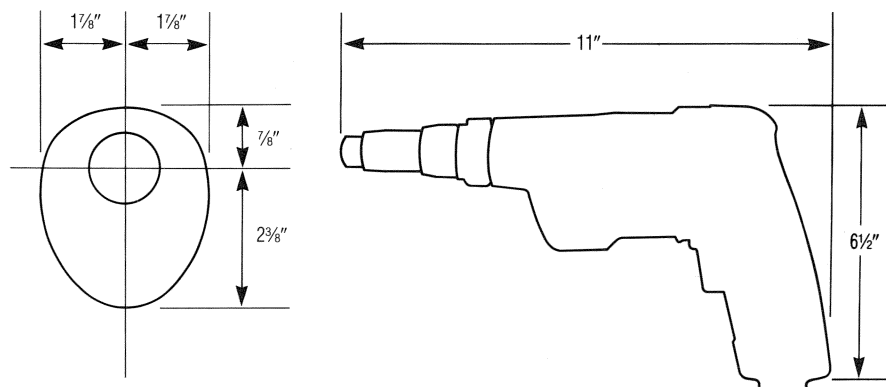
The polished metal housings guarantee you superior quality inside and out.

The exclusive Versa-Clutch® feature allows you to override the selected torque by varying the pressure you apply when using the Scrugun®.

Look at the other special features of your new drill as pictured in the cut-away view we've provided.

Once you use your new Master Series™ drill, we think you're going to agree, Master Series™ tools are masterpieces of power and performance.

Size and dimensional clearances:



Warranty

Black & Decker (U.S.) Inc. warrants this product for one year from date of purchase. We will repair without charge, any defects due to faulty material or workmanship. Please return the complete unit, transportation prepaid, to any Black & Decker Service Center or Authorized Service Station, listed under "Tools Electric" in the yellow pages. This warranty does not apply to accessories or damage caused where repairs have been made or attempted by others.

Like most Black & Decker products your tool is listed by Underwriters Laboratories to ensure that it meets stringent safety requirements.

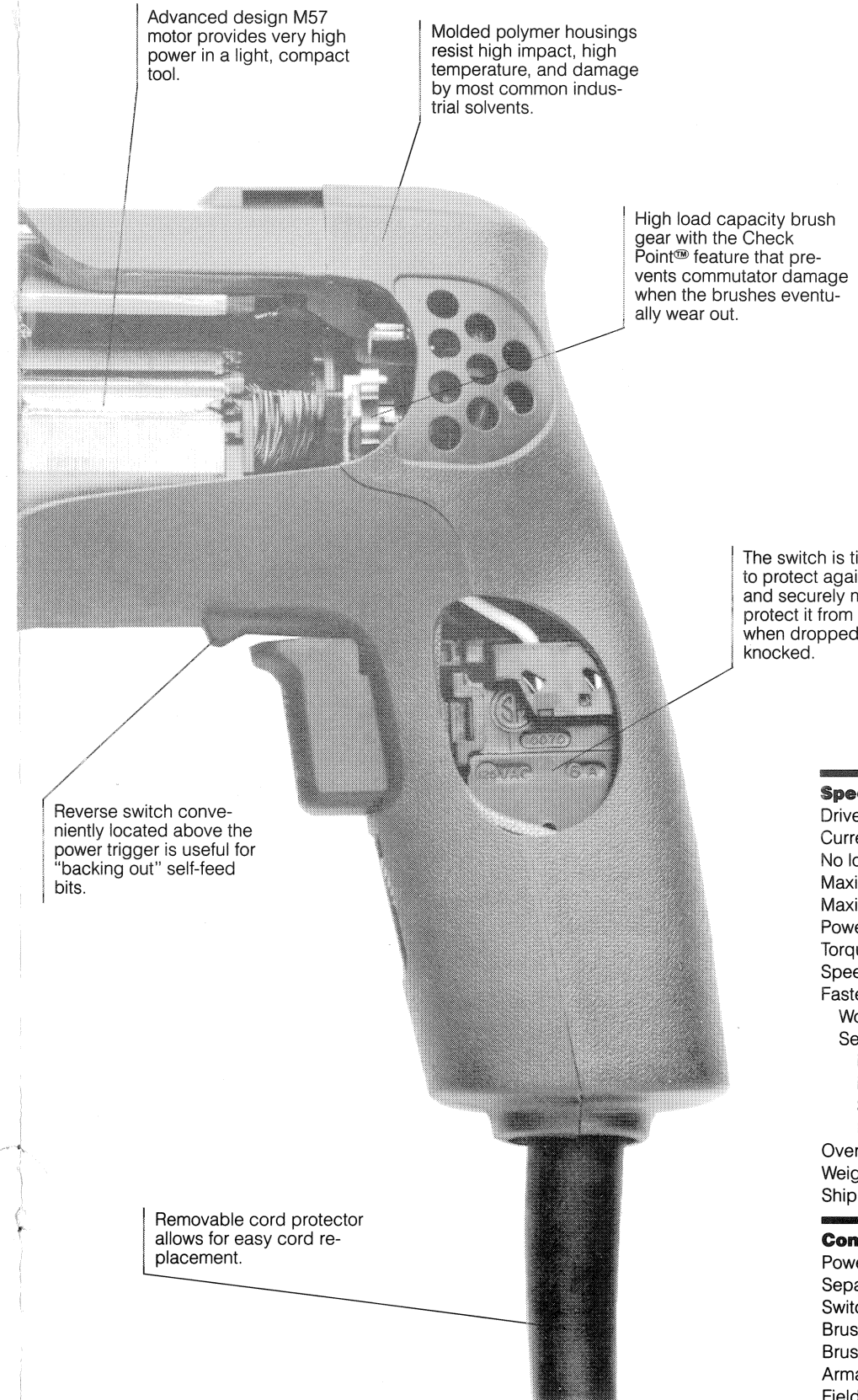
This symbol on the nameplate means the product is listed by Underwriters Laboratories, Inc.



See 'Tools-Electric'
—Yellow Pages—
for Service & Sales



Notes



Advanced design M57 motor provides very high power in a light, compact tool.

Molded polymer housings resist high impact, high temperature, and damage by most common industrial solvents.

High load capacity brush gear with the Check Point[®] feature that prevents commutator damage when the brushes eventually wear out.

The switch is tightly sealed to protect against dust and securely mounted to protect it from damage when dropped or knocked.

Reverse switch conveniently located above the power trigger is useful for "backing out" self-feed bits.

Removable cord protector allows for easy cord replacement.

10 foot rubber power cord provides extra length and stays flexible at low temperatures.

Double insulated construction with a 3-conductor grounded power cord for your safety.

Variable speed gives you control when you need it:

- Working on a surface that could be easily marred
- Starting drill point screws in hard materials

Specifications:

Drive size (inches) and configuration	1/4 Hexagonal
Current rating @ 120V AC (amps)	5.0
No load speed (rpm)	0-2500 rpm
Maximum power output (watts/horsepower)	470/0.6
Maximum torque output (ft. lbs.)	9.5
Power output @ rated current (watts/horsepower)	270/.36
Torque output @ rated current (ft. lbs.)	1.05
Speed @ rated current (rpm)	1750
Fastener capacities:	
Woodscrews in oak	#12
Self drilling screws	
in 3/16" CRS	1/4
in 1/2" CRS	#12
Sheet metal screws	5/16
Machine screws	1/4
Overall gear reduction ratio	12.03 : 1
Weight w/o cord (lbs.)	3.3
Shipping weight (lbs.)	4.9

Commonly used service parts' numbers:

Power supply cord	36480-98
Separable cord protector	24288-00
Switch	450270-00
Brushes (2 required)	445861-01
Brush springs (2 required)	445860-00
Armature	450969-31
Field	449888-71

Regulatory agency listing and compliance:

The 5274 Scrugun[®] is U.L. listed and in compliance with OSHA.



Important Safety Instructions (For All Tools)

WARNING: 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:


READ ALL INSTRUCTIONS

- KEEP WORK AREA CLEAN.** Cluttered areas and benches invite injuries.
- CONSIDER WORK AREA ENVIRONMENT.** Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep work area well lit.
- GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example: pipes, radiators, ranges, refrigerator enclosures.
- KEEP CHILDREN AWAY.** All visitors should be kept away from work area. Do not let visitors contact tool or extension cord.
- STORE IDLE TOOLS.** When not in use, tools should be stored in dry, and high or locked-up place—out of reach of children.
- DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was intended.
- USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy-duty tool. Don't use tool for purpose not intended, for example, don't use circular saw for cutting tree limbs or logs.
- DRESS PROPERLY.** Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- USE SAFETY GLASSES.** Also use face or dustmask 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.
- SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
- DON'T OVERREACH.** Keep proper footing and balance at all times.
- MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safe performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean and free from oil and grease.
- DISCONNECT TOOLS.** When not in use, before servicing, and when changing accessories, such as blades, bits, cutters.
- REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- AVOID UNINTENTIONAL STARTING.** Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.
- OUTDOOR USE EXTENSION CORDS.** When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
- STAY ALERT.** Watch what you are doing. Use common sense. Do not operate tool when you are tired.
- CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding 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 elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Do not use tool if switch does not turn it on and off.
- DO NOT OPERATE** portable electric tools near flammable liquids or in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks might ignite fumes.


SAVE THESE INSTRUCTIONS FOR FUTURE USE.







Screwdriver Accessories continued

Hex Drive Shank Extensions

	SHANK SIZE	SQ. DR.	LENGTH
	1/4"	1/4"	2"
*For use with 1/4" square drive sockets—1/4" hex.	1/4"	1/4"	6"

Sockets for the above:

	TYPE	SOCKET SIZE	DIAM.	LENGTH
FOR DRIVING HEX NUTS AND SHEET METAL SCREWS		1/4"	1/2"	7/8"
1/4" Sq. Drive	Non-Magnetic	5/16"	1/2"	7/8"
	Magnetic	3/8"	9/16"	15/16"
		1/4"	7/16"	7/8"
		5/16"	1/2"	7/8"
		3/8"	9/16"	7/8"

SCREW TYPE AND NUMBER SIZE					
					
FLAT OR OVAL	ROUND	FILLISTER	BINDING	PAN	TRUSS

1/4" Hex Bits For Slotted Head Screws

3, 4	3, 4	4, 5	3	4	2
5	5	6	4	5	3, 4
6	6	8	5	6	—
8	8	10	6, 8	8	5, 6
10	10, 12	12	10	10	8
12, 14, 1/4	14, 16, 1/4	1/4	12, 1/4	12, 1/4	10
12	14, 1/4	1/4	12	12	10

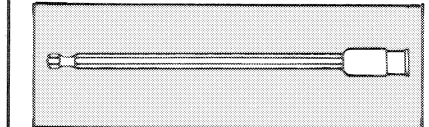
1/4" Hex Bits With Rotating Finder

For Use With Any 1/4" Hex Drive Power Tool

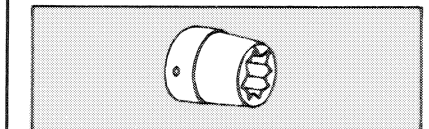
						BIT LENGTH
4, 5	4, 5	4, 5, 6	4, 5	4, 5	—	3-1/2"
8	8	8, 10	6	8	5, 6	3-1/2"
8	8	8, 10	6	8	5, 6	6"
10	10	12	8, 10	10	8, 10	3-1/2"
12	12	1/4	—	12	—	3-1/2"

Misc. Screwdriver Accessories

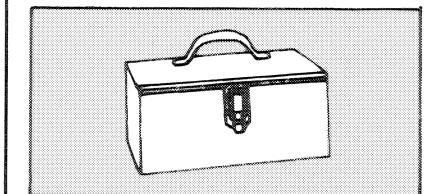
6" Hex Bit Extension
For use with 1/4" Hex Shanks and/or other extensions.



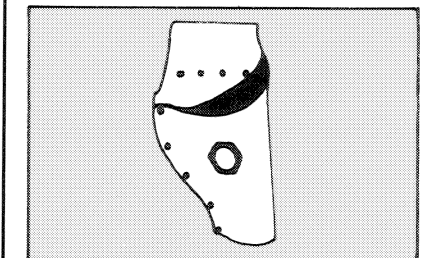
1/4" Square Drive Magnetic Socket
For driving 8 Pointed Nylon and Steel Headed Screws.



Heavy-Duty Tool Box



Screwdriver Holster
Heavy leather holster attaches to belts up to 2-3/4" wide.



Important

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment (excluding maintenance printed in this manual) should be performed by BLACK & DECKER Service Centers or other qualified service organizations, always using BLACK & DECKER replacement parts.

Lubrication Cont.

Clutches should be lubricated at same time the gearing is relubricated in accordance with the following procedure:

1. Remove clutch housing by unscrewing in direction of arrow (left hand thread), as shown in Figure 5.
2. Coat clutch face inside nose of gear case and inside of clutch housing with Black & Decker #69251 Grease.
3. Reassemble. Clutch housing.


Screwdriver Accessories

CAUTION: Recommended accessories for use with your Screwdriver are shown in this manual. The use of any other accessory or attachment might be hazardous.





The accessories listed in this manual are available at extra cost from your local dealer or Black & Decker Service Center. A complete listing of service centers is included on the owner's registration card packed with your tool.

If you need assistance in locating any accessory, please contact: Black & Decker (U.S.) Inc., User Services Department, 10 North Park Drive, P.O. Box 857, Hunt Valley, MD 21030-0857.


Hex Shank Bit Tip Holders for Non-Drywall Screwdrivers

	1/4" HEX SHANK FOR 1/4" TIP	TYPE	LENGTH
		Non-Magnetic Magnetic	2-1/8" 2-1/8"


Hex Shank Insert Bits for Bit Tip Holders

SCREW TYPE		POINT SIZE
	PHILLIPS	1 2 3
		2 drywall
		FREARSON REED & PRINCE
	PHILLIPS POSIDRIV	2 3
	SOCKET HEAD CAP SCREWS	1/8" 5/32" 3/16"

Hex Shank Power Bits

SCREW TYPE	POINT SIZE	LENGTH
	PHILLIPS	1 1-15/16" 2 1-15/16" 2 1-15/16" 2 3-1/2" 3 1-15/16" 2 3-1/2"
	PHILLIPS POSIDRIV	2 1-15/16" 3 1-15/16"

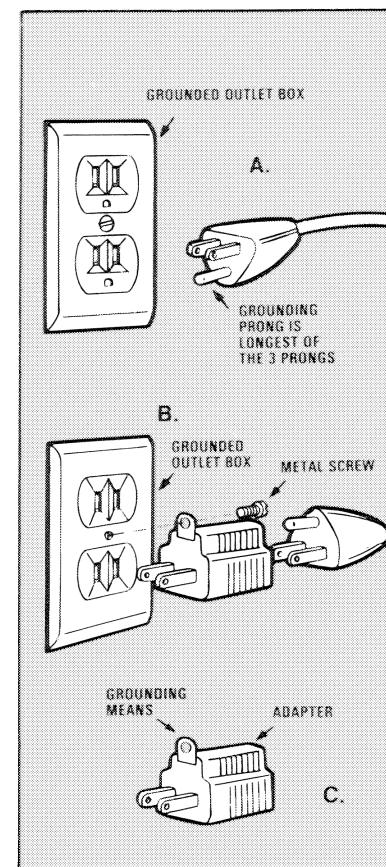
1/4" Hex Drive Nutsetters — for driving hex head fastener

TYPE	SOCKET SIZE	LENGTH
	1/4"	2-9/16"
	Non-Magnetic	5/16" 2-9/16" 3/8" 2-9/16"
	Magnetic	1/4" 1-5/8" 1/4" 2-9/16" 5/16" 2-9/16" 3/8" 2-9/16"

Grounding

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with an approved 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 or yellow) wire to a live terminal. Your unit is for use on less than 150 volts, it has a plug like that shown in Figure A. An adapter, Figure B and C, is available for connecting Figure A plugs to two-prong receptacles. The green-colored rigid ear, lug, etc., must be connected to a permanent ground such as a properly grounded outlet box.

ADAPTER SHOWN IN FIGURES B & C IS NOT FOR USE IN CANADA.



CAUTION: When servicing all tools, **USE ONLY IDENTICAL REPLACEMENT PARTS.** Repair or replace damaged cords.

Extension Cords

Tools that have 3-wire cords requiring grounding must only be used with extension cords that have 3-prong grounding type plugs and 3-pole receptacles. Only round jacketed extension cords should be used, and we recommend that they be listed by Underwriters Laboratories (U.L.) (C.S.A. in Canada). If the extension will be used outside, the cord must be suitable for outdoor use. Any cord marked as outdoor can also be used for indoor work. The letters "WA" on the cord jacket indicate that the cord is suitable for outdoor use.

An extension cord must have adequate wire size (AWG or American Wire Gauge) for safety, and to prevent loss of power and overheating. The smaller the gauge number of the wire, the greater the capacity of the cable, that is 16 gauge has more capacity than 18 gauge. When using more than one extension to make up the total length, be sure each individual extension contains at least the minimum wire size.

To determine the minimum wire size required, refer to the chart below.

NAMEPLATE RATING-AMPS	CHART FOR MINIMUM WIRE SIZE (AWG) OF EXTENSION CORDS							
	TOTAL EXTENSION CORD LENGTH-FEET							
	25	50	75	100	125	150	175	200
0 - 10.0	18	18	16	16	14	14	12	12
10.1 - 13.0	16	16	14	14	14	12	12	12
13.1 - 15.0	14	14	12	12	12	12	12	—

Before using an extension cord, inspect it for loose or exposed wires, damaged insulation, and defective fittings. Make any needed repairs or replace the cord if necessary. Black & Decker has extension cords available that are U.L. (C.S.A. in Canada) listed for outdoor use.

SAVE THESE INSTRUCTIONS

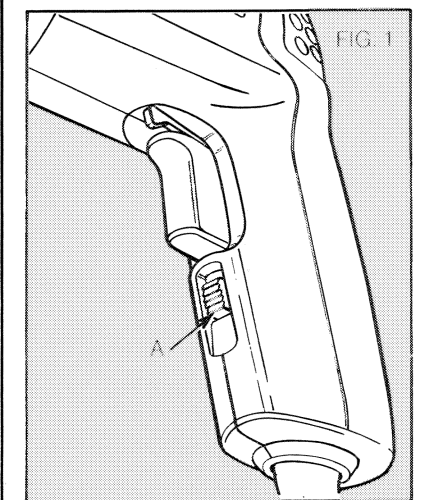
Brushes

Your tool is equipped with Black & Decker brush check-point system. When the brushes become worn out the tool will automatically stop and prevent damage to the motor. Return tool to a Black & Decker Service Center for brush replacement.

Switches

To start unit, depress trigger switch; to stop unit, release trigger. To lock trigger in "ON" position for continuous operation, depress trigger and push up locking button "A" Figure 1, then gently release trigger. To release locking mechanism, depress trigger fully, then release it. Before using the tool (each time) be sure that the lock button release mechanism is working freely.

Be sure to release the switch locking button before disconnecting the plug from the power supply. Failure to do so will cause the tool to start immediately the next time it is plugged in. Damage or injury could result.

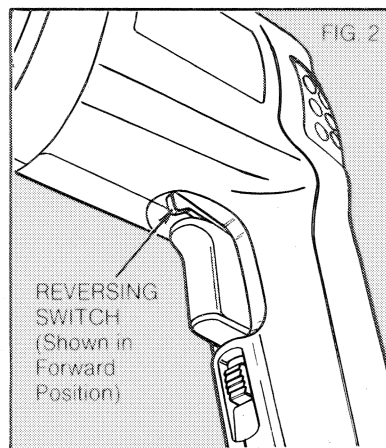


The Variable Speed Trigger Switch permits speed control — the farther the trigger is depressed, the higher the speed of the unit.

For maximum tool life, use lower speed only for starting the fastener. Continuous use at lower speed is not recommended.

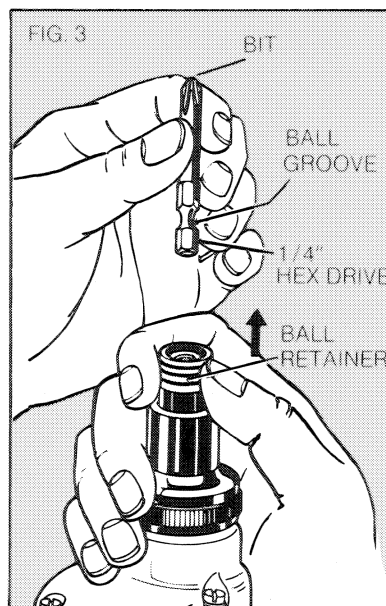
Switches Cont.

The Reversing Switch is used for removing screws at lower speeds. It is located above the Trigger Switch (Figure 2). To reverse the motor, release the trigger **FIRST** and then push the lever to the right. After any reversing operations, return switch to forward position by pushing it to the left.



Accessory Assembly

THE 1/4" HEX DRIVE QUICK CHANGE CHUCK (Fig. 3) is used. A ball retainer provides positive locking of all accessories in the chuck. Push forward on the ball retainer and hold while inserting or removing accessories. Release for positive accessory retention.



Dead Spindle Action

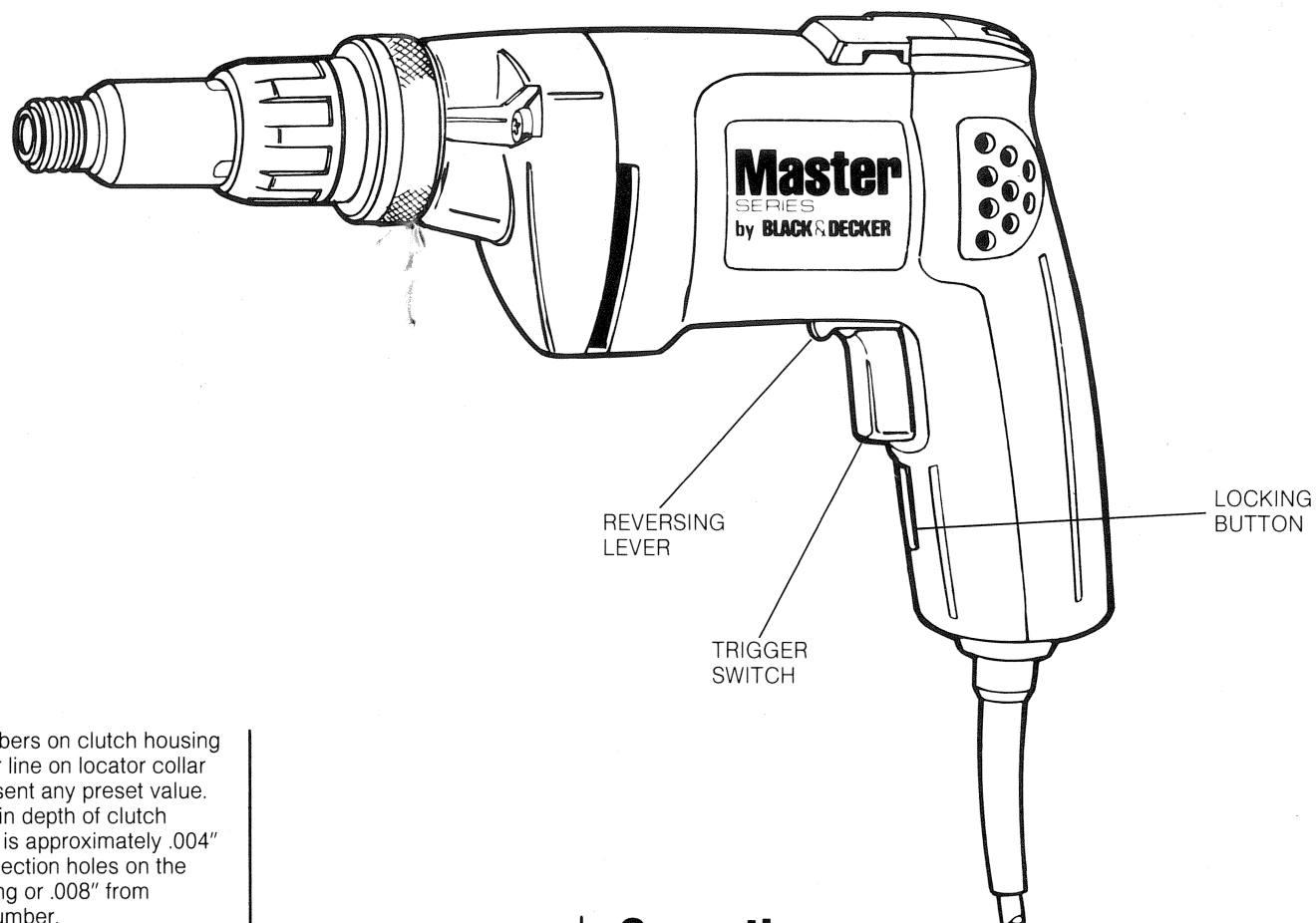
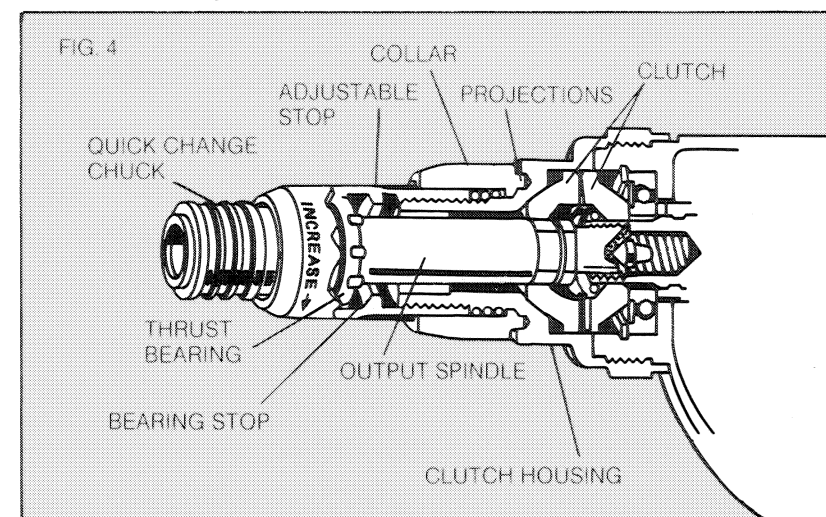
All Black & Decker screwdrivers provide a "dead" front spindle to permit fasteners to be located in the driving accessory. Clutches are held apart by light spring pressure permitting the driving clutch and accessory. When sufficient forward pressure is applied to the unit, the clutches engage and rotate the spindle and accessories. A reversing switch makes it possible to drive or loosen either right or left-hand screws.

Adjustment (Fig. 4)

External adjustment of unit for a wide range of fastener sizes is fast and easy as follows:

1. Push forward on collar to disengage projections from holes in clutch housing.
2. Rotate collar in INCREASE direction stamped on Adjustable Stop to increase the amount of clutch engagement and torque output.
3. Maximum rotation of the collar in the INCREASE direction results in full clutch engagement and maximum torque output and fastener capacity. Any decrease from maximum results in the thrust bearing contacting the bearing stop and limits the clutch engagement decreasing torque output. Collar and adjustable stop will not screw off clutch housing.
4. Test drive a fastener into a scrap piece to check proper fastener seating. It is normal after a period of use to require a slightly different collar setting due to wear on the clutch faces.

NOTE: Numbers on clutch housing and indicator line on locator collar do not represent any preset value. The change in depth of clutch engagement is approximately .004" between projection holes on the clutch housing or .008" from number to number.



Operation

RPM	NOMINAL CAPACITY					
	WOOD SCREWS	LAG SCREWS	SELF DRILL SCREWS	THREAD CUTTING SCREWS	SHEET METAL SCREWS	MACHINE SCREWS
0-2500	#12	#12	1/4"	1/4"	5/16"	1/4"
			1/2" CRS	3/16" CRS		

1. Install proper fastener driving accessory and set screwdriver for correct rotation.
2. Adjust clutch setting.
3. Place fastener in accessory, contact workpiece and apply pressure to seat fastener keeping clutches engaged.
4. Upon fastener seating the clutches will ratchet. Disengage screwdriver from fastener.

NOTE: With Versa-Clutch the operator has the ability to "override" clutch ratchet if a fastener hits a wood knot, variable hardness in steel workpieces or incorrect pilot holes. Increased operator pressure will usually cause the clutches to "pick-up" and continue to seat the fastener. Further, a quick twist of the collar will change the clutch setting to overcome most driving difficulties and will provide for immediate change in torque output giving the operator option to drive a range of fastener sizes.

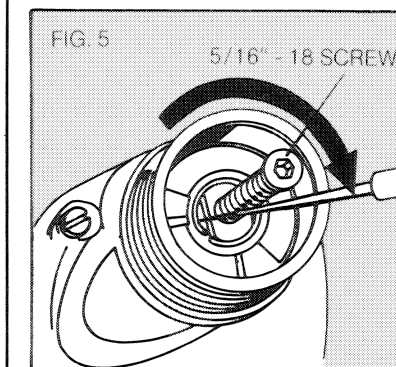
Maintenance

CLEANING

With the motor running, blow dirt and dust out of all air vents with dry air at least once a week. Wear safety glasses when performing this. Exterior plastic parts may be cleaned with a damp cloth and mild detergent. Although these parts are highly solvent resistant, **NEVER** use solvents.

CHANGING CLUTCHES

1. Remove clutch housing by unscrewing in direction of arrow (left hand thread), as shown in Figure 5.
2. Clamp tool or clutch housing in a resilient clamp.
3. Remove round clutch retaining rings with a very small screwdriver or sharp pointed tool.
4. Install new clutches and new retaining rings.
5. Relubricate clutches. (See lubrication)



Lubrication

All ball bearings and needle roller bearings are factory lubricated for the life of the bearings. Needle roller bearings receive additional lubrication from the grease in the gear case. Gearing and gear case should be relubricated every six months or when gear case is removed for servicing as follows: (more often if the tool is used constantly on production jobs)

1. Remove three gear case screws from front and disassemble gear case.
2. Clean out old grease and thoroughly clean all parts.
3. Relubricate gear box and gearing with the quantity of B&D Heavy Duty grease as called for on Parts Bulletin.
4. Reassemble.