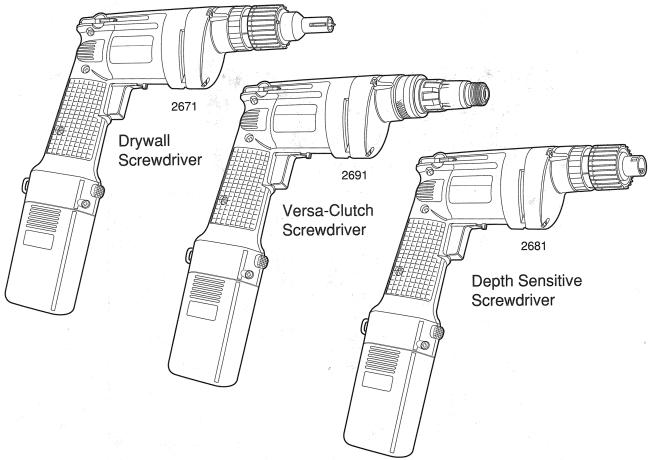


# **Instruction Manual**

**13.2 Volt Cordless Screwdrivers** 



# Thanks For Selecting a Black & Decker Kodiak Cordless Screwdriver.

Your new cordless screwdriver has been engineered to the same tough standards of quality that have made Black & Decker the world's leader in cordless technology. Made to be tough and reliable, your new screwdriver packs plenty of power and long life for jobs far removed from any power source.

With the proper accessories you can drive and remove screws, bolts and nuts in a fraction of the time needed for conventional hand tools.

All of this versatility and Black & Decker's famous toughness make this screwdriver every inch the professional that you are.

Please take the time to read this informative instruction manual and pay particular attention to the safety instructions we've included for your protection.

Don't forget to send in your owner's registration card.

Thanks, again for buying Black & Decker!



# **Important Safety Instructions**

**WARNING**: When using Electric Tools, basic safety precautions should always be followed to reduce the risk of fire, shock, and personal injury, including the following:

### **READ ALL INSTRUCTIONS**

- 1. KEEP WORK AREA CLEAN. Cluttered areas and benches invite injuries.
- 2. **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.
- 3. KEEP CHILDREN AWAY. All visitors should be kept away from work area. Do not let visitors contact tool.
- 4. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, and high or locked-up place—out of reach of children.
- 5. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was intended.
- 6. **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.
- 7. **DRESS PROPERLY.** Do not wear loose clothing or jewelry. They can be caught in moving parts. Non-skid footwear is recommended when working outdoors. Wear protective hair covering to contain long hair.
- 8. **USE SAFETY GLASSES.** Also use face or dustmask if operation is dusty.
- 9. **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.
- 10. **DON'T OVERREACH.** Keep proper footing and balance at all times.
- 11. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safe performance. Follow instructions for lubricating and changing accessories. Keep handles dry, clean, and free from oil and grease.
- 12. Lock off tool when not in use, before servicing, and when changing accessories.
- 13. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- 14. AVOID UNINTENTIONAL STARTING. Don't carry tool with finger on switch.
- 15. STAY ALERT. Watch what you are doing. Use common sense. Do not operate tool when you are tired.
- 16. **CHECK DAMAGED PARTS.** Have defective switches replaced by authorized service center. Do not use tool if switch does not turn it on and off.
- 17. **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.
- 18. **BE AWARE** that this tool is always in an operating condition because it does not have to be plugged into an electrical outlet. Keep the switch control lever in the lock "OFF" position, as shown in Figure 3, when you are not using the tool.

**CAUTION:** When driving into walls, floors or wherever "live" electrical wires may be encountered, **DO NOT TOUCH ANY FRONT METAL PARTS OF THE TOOL!** Hold the tool only by the plastic handle to prevent shock if you drive into a "live" wire.

# SAVE THESE INSTRUCTIONS FOR FUTURE USE.

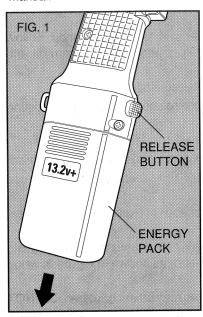
Your tool carton contains two separate instruction manuals; one for the cordless screwdriver and one for the UNIVOLT™ one hour battery charger.

READ ALL OF THE INSTRUCTIONS IN THE UNIVOLT ONE HOUR BATTERY CHARGER INSTRUCTION MANUAL BEFORE ATTEMPTING TO CHARGE THE ENERGY PACK FOR YOUR TOOL.

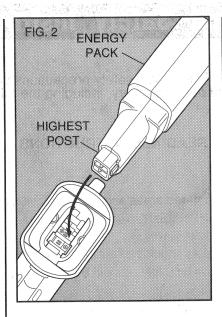
# Removing and Installing the Energy Pack

NOTE: THE BATTERIES IN YOUR ENERGY PACK ARE NOT FULLY CHARGED AT THE FACTORY.

To remove the energy pack from the tool, press the release button, as shown in Figure 1, and let the energy pack slide out of the tool handle. Insert it into the charger as described in the charger instruction manual.



To install the energy pack into the tool handle, align the pack so that the highest post, shown in Figure 2, is toward the front of the tool. Slide the energy pack firmly into the handle until you hear the lock snap into place.



# Energy Pack Important Charging Notes

- Longest life and best performance can be obtained if the batteries are charged when the air temperature is about +75°F.
   DO NOT charge the batteries in an air temperature below +40°F or above +105°F. This is important and will prevent serious damage to the batteries.
- If the batteries do not charge properly — (1) Check current at receptacle by plugging in a lamp or other appliance, (2) Check to see if receptacle is connected to a light switch which turns power off when you turn out the lights.
- If the receptacle is o.k., and you do not get proper charging, take or send the tool and charger to your local Service Center. See "TOOLS, ELECTRIC" in yellow pages.
- 4. The energy pack should be recharged when it fails to produce sufficient power on jobs which were easily done previously. DO NOT CON-TINUE to use under these conditions. Repeat the charging procedure.
- Under certain conditions, with the charger plugged in to the power supply, the exposed

charging contacts inside the charger can be shorted by foreign material and may cause a fire. Foreign materials of a conductive nature such as, but not limited to, steel wool, aluminum foil, or any buildup of metallic particles should be kept away from empty battery cavities. Always unplug the battery charger from the power supply when there is no battery in the cavity. Unplug charger before attempting to clean.

### **Motor Brushes**

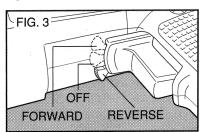
Your tool uses the B&D "Checkpoint" brush system. The tool will stop when the brushes wear out. This prevents damage to the motor.

### **Switches**

To turn the tool "ON", squeeze the trigger switch; to turn the tool "OFF", release the trigger switch. Your tool is equipped with a variable speed switch which enables you to select the best speed for a particular application. The farther you squeeze the trigger, the faster the tool will operate.

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

A switch control lever determines the direction of the tool and also serves as a lock "OFF" lever. To select forward rotation (driving screws) release the trigger switch and push the switch control lever to the right when viewed as shown in Figure 3.



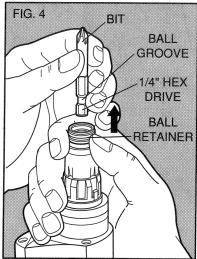
To select reverse (for backing out screws) push the lever to the left, as shown in Figure 3. The center position of the lever locks the tool in the "OFF" position.

When changing the position of the switch control lever, be sure the tool is "OFF" and has stopped coasting.

## **Accessory Assembly**

The 1/4" HEX DRIVE BALL LOCK CHUCK is used on all depth sensitive and drywall screwdrivers. Assemble accessories by engaging the hex spindle and tapping lightly on the accessory until it snaps in place. Usually pliers are required to remove the accessory by pulling forward.

THE 1/4" HEX DRIVE QUICK CHANGE CHUCK (Fig. 4) is used on all versa-clutch units. 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.



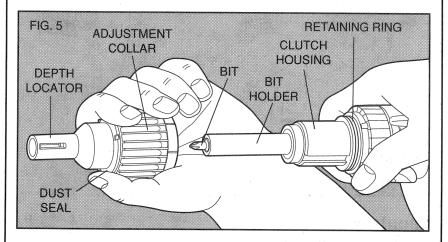
# Accessory Assembly & Adjustment for Depth Sensitive Units (Fig. 5)

To change Bit Holders or Remove screws on depth sensitive units:

- Pull forward on adjustment collar and remove from clutch housing.
- 2. Pull bit holder straight out with pliers if it is difficult to remove.
- Push new bit holder into spindle until ball lock snaps in groove in bit holder shank.
- Replace adjustment collar by snapping over retaining ring.

**NOTE:** align ribs on inside of depth locator with grooves in clutch housing before snapping in place.

5. Depth locator is removable by unscrewing dust seal.



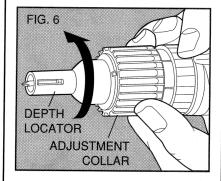
# Depth Adjustment on Drywall Units (Fig. 6)

- Rotate adjustment collar.
   Clockwise rotation will provide deeper seating of screws.
- Test drive a fastener in scrap material to determine if fastener is correctly seating.
- Further adjustment may be necessary to increase or decrease the fastener depth.

**TO INCREASE,** turn the adjustment collar so that end of bit extends further from end of locator.

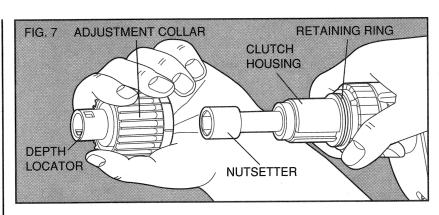
**TO DECREASE**, turn the adjustment collar so that the end for bit is closer to end of locator.

Black & Decker Drywall Units have very fine depth setting, each "click" is .007" or one revolution of the locator collar equals .083" change in depth setting.



# Installing and Changing Nutsetters and Locators on Depth Sensitive for Drill Point Screws (Fig. 7)

- 1. Select nutsetter size desired.
- Two locators are supplied, a 9/16" I.D. for 3/8" nutsetters and 1/2" I.D. for 5/16" nutsetters (1/2" I.D. supplied on unit) Match locator to desired size nutsetter or bit holder.
- Drop nutsetter into nose of locator and rap end of nutsetter until ball lock snaps in groove in nutsetter shank.
- 4. To change the nutsetter or locator pull forward on adjustment collar and remove from clutch housing.
- Pull nutsetter straight out with pliers if it is difficult to remove.
- 6. Assemble nutsetter as in step 3 above.
- Reassemble adjustment collar by snapping over ring. Note: Align ribs on inside of depth locator with grooves in clutch housing.



### Locators

Provide clearance needed for using 5/16", 3/8" nutsetters with 1/4" Hex Drive Shanks.

Available at extra cost from B&D Service Centers

STD. 448862-01 1/2" ID for 5/16" Hex Head Screws

STD. 448862-00 9/16" ID for 3/8" Hex Head Screws

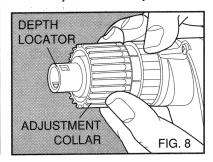
# Depth Adjustment on Depth Sensitive Units for Drill Point Screws (Fig. 8)

For washer head screws:
 Rotate adjustment collar until end of nutsetter is flush with end of locator.

For large washer head and "sealer" screws:

Adjust as above until end of nutsetter is **RECESSED** approximately 1/16" into the locator.

- Test drive a fastener in scrap material to determine if seating is correct.
- 3. Readjust if necessary.

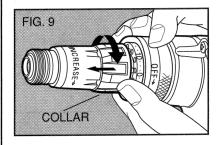


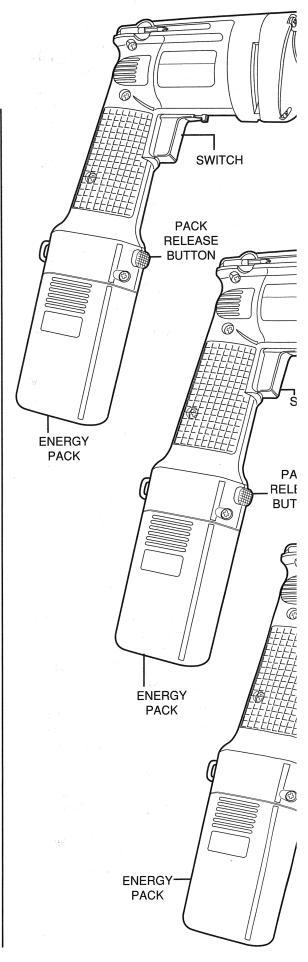
Depth sensitive units have very fine depth settings, each "click" is .007" or one revolution of the locator collar equals .083" change in depth setting.

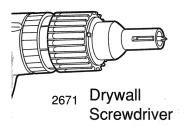
# Adjustment of Versa-Clutch Units (Fig. 9)

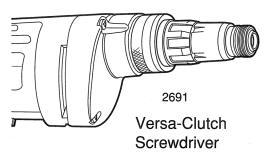
External adjustment of all Versa-Clutch Units for a wide range of fastener sizes is fast and easy as follows:

- Rotate collar in INCREASE direction stamped on Adjustment Collar to increase the amount of clutch engagement and torque output.
- 2. 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.



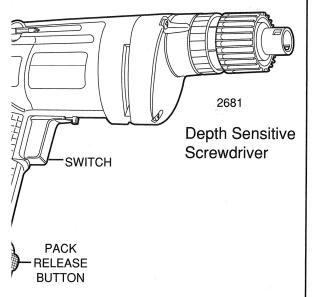






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NOTE: Test drive a fastener into a scrap piece to check proper fastener seating. It is normal after a period of use to require a slightly different collar setting due to wear on the clutch faces.

## **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 to rotate without turning the driven 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.

# Depth Sensitive Drywall Screwdriver

(2671)

RPM	NOMINAL CAPACITY
0 - 1800	All Commercially Available Drywall Screws

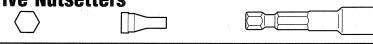
- Install Drywall Bit in Bit Holder.
- 2. Adjust Depth Locator.
- Check for correct rotation, start screwdriver and place drywall screw on bit.
- Contact drywall applying forward pressure to drive screw until depth locator contacts work surface. Screwdriver will ratchet automatically disengaging bit from screw.

# Depth Sensitive Screwdriver for Driving Self Drilling, Thread Cutting, Sheet Metal & WoodScrews (2681)

,	NOMINAL CAPACITY				
RPM	WOOD SCREWS	SELF DRILL SCREWS 3/16" CRS	THREAD CUTTING SCREWS	SHEET METAL SCREWS	
0 - 1200	#12	#12	#12	1/4"	

- 1.Install proper size nutsetter, socket, bit or driving accessory AND proper inside diameter locator to prevent fastener wobble. See set-ups below & on pages 8 and 9.
- 2. Adjust depth locator.
- 3. Check for correct rotation, start screwdriver and place fastener in nutsetter, socket or bit.
- Contact workpiece applying pressure to keep drilling screws cutting.
  Upon fastener seating depth locator will contact workpiece causing
  screwdriver to automatically ratchet disengaging the driving accessory
  from fastener.

# Hex Head Screws Using One-Piece 1/4" Hex Drive Nutsetters



HEX SIZE	LOCATOR	NUTSETTER MAGNETIC	NUTSETTER NON-MAG
5/16"	5/16" No. 448862-01 1/2" I.D.		61106
3/8" "25 27	No. 448862-00 9/16" I.D.	65878	61107

# Hex Head Screws Using 1/4" Hex Drive Extension & Sockets



HEX SIZE	LOCATOR	EXTENSION	SOCKET MAGNETIC	SOCKET NON-MAG.
1/4"	1/2" I.D. No. 448862-01	1/4" Sg. x	38420	20512
5/16"	1/2" I.D. No. 448862-01	2" Long No.20510	38422	20514
3/8"	9/16" I.D. No. 448862-00		38424	20516

# **Versa-Clutch Screwdriver for Driving a Wide Range of Fasteners** (2691)

		i Markan iyo ba				
RPM	WOOD SCREWS	LAG SCREWS	SELF DRILL SCREWS	THREAD CUTTING SCREWS	SHEET METAL SCREWS	MACHINE SCREWS
0 - 850	#12	1/4"	#12	#12	1/4"	1/4"
	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 the 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.

#### **DRYWALL SCRUGUNS**

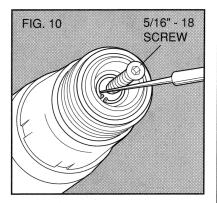
Depth locator and adjustment collar should be removed, and drywall dust blown out of clutch housing area at least once a week.

#### **CHANGING CLUTCHES (FIG. 10)**

- 1. Remove clutch housing by unscrewing (left hand thread).
- 2. Clamp tool or clutch housing in a resilient clamp.
- Remove round clutch retaining rings with a very small screwdriver or sharp pointed tool.
- 4. Install new clutches and new retaining rings.

NOTE: If the output spindle slides toward inside of gear case, remove dead spindle spring and thread a 5/16" - 18 bolt or cap screw into end of spindle and lift up to expose retaining ring groove. Reassemble dead spindle spring allowing no more than 1/4" projecting from end of spindle.

Relubricate clutches. (See lubrication)



## Lubrication

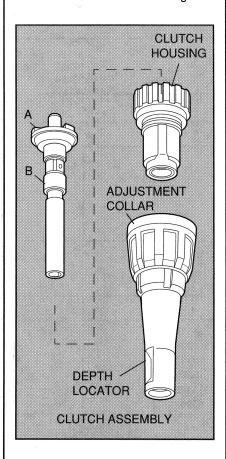
All ball bearings and needle roller bearings are factory lubricated for the life of the bearings. Needle roller bearings receive additional lubrication from the grease in the gear case. Gearing and gear case should be re-lubricated every six months or when gear case is removed for servicing as follows: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

- Remove three gear case screws from front and disassemble gear case.
- 2. Clean out old grease and thoroughly clean all parts.

- Relubricate gear box and gearing with the quantity of B&D Heavy Duty grease as called for on Parts Bulletin.
- 4. Reassemble.

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

- 1. Remove clutch housing by unscrewing (left hand thread).
- On Drywall, Depth Sensitive units slip clutch assembly from clutch housing.
- Lightly brush or coat areas marked A, B with B&D Clutch Grease 69251. Coat clutch face inside nose of gear case.
- On Positive and Versa-Clutch units the clutch assembly will not slip out of the clutch housing. It is necessary only to coat the clutch faces on these units.
- 5. 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: Consumer Service Department, Black & Decker (U.S.) Inc., U.S. Power Tools Group, 626 Hanover Pike, P.O. Box 618, Hampstead, MD 21074-0618.

#### Hex Shank Bit Tip Holders for Non-Drywall Screwdrivers

	TYPE	LENGTH	CAT. NO.
1/4" HEX SHANK FOR 1/4" TIP	Non-Magnetic Magnetic	2-1/8" 2-1/8"	61108 63957
		19 July 1969 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and a sumple of

#### **Hex Shank Insert Bits for Bit Tip Holders**

SCREW TYPE PHILLIPS	POINT SIZE 1 2 3	1/4" HEX CAT. NO. 38403 384-4* 38405
	2 drywall	52058†
FREARSON REED & PRINCE	6 & larger 5 & smaller	38406 65902
PHILLIPS POSIDRIV	2 3	61102 61104
SOCKET HEAD CAP SCREWS	1/8" 5/32" 3/16"	66270 66272 66274

#### **Hex Shank Power Bits**

SCREW TYPE I	POINT SIZE	LENGTH	જાણેરાં <sub>દિ</sub> રા માટે કે પ્રાથમિક છે.
PHILLIPS (	1 2 2 2 2 3 2	1-15/16" 1-15/16" 1-15/16" 3-1/2" 1-15/16" 3-1/2"	54595 54592† 39018* 54599† 54594 18098*
PHILLIPS POSIDRIV	2 3	1-15/16" 1-15/16"	61098 61100

<sup>\*</sup>For std. "soft" screws.

<sup>†</sup>For sheet metal, Tek, self-tapping screws.

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

	TYPE	SOCKET SIZE	LENGTH	
	Non-	1/4" 5/16"	2-9/16" 2-9/16"	61105 61106
	Magnetic	3/8"	2-9/16"	61107
		1/4"	1-5/8"	49278
i i i i i i i i i i i i i i i i i i i		1/4"	2-9/16"	65876
	Magnetic	5/16" 3/8"	2-9/16" 2-9/16"	65877 65878

### **Hex Drive Shank Extensions**

	SHANK SIZE	SQ. DR.	LENGTH	3. 3.
	1/4"	1/4"	2"	20510
*For use with 1/4" square drive sockets— 1/4" hex.	1/4"	1/4"	6"	20511

#### Sockets for the above:

FOR DRIVING HEX NUTS AND SHEET METAL SCREWS	TYPE Non- Magnetic	SOCKET SIZE 1/4" 5/16" 3/8"	DIAM. 1/2" 1/2" 9/16"	LENGTH 7/8" 7/8" 15/16"	20512 20514 20516
1/4" Sq. Drive	Magnetic	1/4" 5/16" 3/8"	7/16" 1/2" 9/16"	7/8" 7/8" 7/8"	38420 38422 38424

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

### 1/4" Hex Bits For Slotted Head Screws

4 (*) 201	-					BIT	
3, 4	3, 4	4, 5	3	4	2	38412	
5	5	6	4	5	3, 4	13208	
6	6	8	5	6	<u> </u>	38413	· · · · · · · · · · · · · · · · · · ·
* - 8	8	10	6, 8	8	5, 6	13207	
i10	10, 12	12	10	. 10	8	15475	
12	- <del></del>		12	12	10	65901	

<sup>\*</sup>For std. "soft" screws.

<sup>†</sup>For sheet metal, Tek, self-tapping screws.

### 1/4" Hex Bits With Rotating Finder For Use With Any 1/4" Hex Drive Power Tool 🔲

		V		en e	e di Santa d	ВІТ	BIT AND FINDER	BIT LENGTH
4, 5	4, 5	4, 5, 6	4, 5	4, 5	· · · · · · · · · · · · · · · · · · ·	17688	17690	3-1/2"
8	8	8, 10	6	8	5, 6	13353	13356*	3-1/2"
8	8	8, 10	6	8 1 2 1 1 1 1	5, 6	13470	13469	6"
10	10	12	8, 10	10	8, 10	18594	18593	3-1/2"
12	12	<u> </u>	_	12	<del>-</del>	46687	21731	3-1/2"

<sup>\*</sup>For std. "soft" screws.

# Misc. Screwdriver Accessories

6" Hex Bit Extension Cat. No. 22539 For use with 1/4" Hex Shanks and/or other extensions.



1/4" Square Drive Magnetic Socket Cat. No. 38520 For driving 8 Pointed Nylon and Steel Headed Screws.

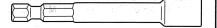


Magnetic Bit Tip Holders for Drywall Screwdrivers

Cat. No. 52060

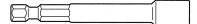
(Mfgrs. No. M490)—1/4" Hex Shank for 1/4" Hex Tip (2.31/32 long) for use with No. 2035 Type 6, No. 2036 Type 5.

Drywall Screwdrivers and Nos. 2035-09, 2036-09, 2037-09.



Cat. No. 52059

1/4" Hex Shank for 1/4" Hex Tip (3" long) fpr use only with No. 2035 Type 4 and No. 2036 Type 3 and older models.



Nutsetters

Cat. No. 40049

3-3/16" length For 5/16" Hex Head Screws



<sup>†</sup>For sheet metal, Tek, self-tapping screws.

### **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.

### **Batteries**

After several years of normal use, the batteries in your battery pack will no longer accept a charge. This is a normal occurrence, and signifies that the batteries have reached the end of their useful life. Replacement battery packs are available at extra cost at your local Black & Decker Service Center.

Your battery pack contains nickel cadmium batteries. The Environmental Protection Agency considers Cadmium to be a toxic material that can do severe damage to the environment. Check with your state Environmental Protection Agency to find out how to properly recycle or dispose of cadmium, or you can turn in expired battery packs to your local Black & Decker Service Center for proper recycling or disposal.

### Warranty

Black & Decker (U.S.) Inc. warrants this product for one year from the 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.

Every Black & Decker tool is of the highest quality. If you wish to contact us regarding this product, please call toll free between 8:00 a.m. and 5:00 p.m. ET, Monday through Friday. 1-800-762-6672

Like most Black & Decker tools, your Cordless Screwdriver is listed by Underwriter's Laboratories to ensure that it meets stringent safety requirements.



This symbol on the nameplate means the product is listed by Underwriter's Laboratories, Inc.

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

