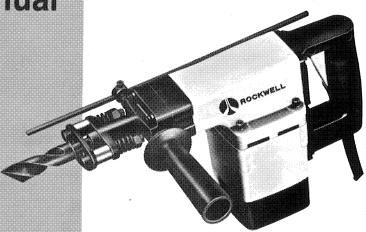
# **Double Insulated Rotary Hammer**

Instruction manual



MODEL 601

# IMPORTANT

Please make certain that the person who is to use this equipment carefully reads and understands these instructions before starting operations.



The	Mod	el a	and	Se	rial	No.	plat	e is	locate	d on
the	main	h	ousi	ng	of	the	tool	. Re	cord	these
numb	oers	in	the	S	oace	s be	low	and	retaii	for
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Model No. \_\_\_\_\_\_Serial No. \_\_\_\_\_

Part No. 863538-0811

# SAFETY RULES FOR ALL TOOLS

As with all power tools there is a certain amount of hazard involved with the operator and his use of the tool. Using the tool with the respect and caution demanded as far as safety precautions are concerned will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or completely ignored, personal injury to the operator can develop.

There are also certain applications for which this tool was designed. Rockwell strongly recommends that this tool NOT be modified and/or used or any application other than for which it was designed. If you have any questions relative to its application DO NOT use the tool until you have written Rockwell and we have advised you.

Manager of Product Safety Power Tool Division Rockwell International 400 North Lexington Avenue Pittsburgh, Pa. 15208

- 1. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
- 2. AVOID DANGEROUS ENVIRONMENT. Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep work area well lit. Avoid chemical or corrosive environment.
- 3. KEEP VISITORS AWAY. All visitors should be kept a safe distance from work area.
- 4. 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.
- **6. USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy duty tool.
- 7. WEAR PROPER APPAREL. No loose clothing or jewelry to get caught in moving parts. Rubber gloves and foot wear are recommended when working outdoors.
- **8. WEAR EYE PROTECTORS.** Wear safety glasses or goggles while operating power tools. Also face or dust mask if operation creates dust. All persons in the area where power tools are being operated should also wear safety eye protectors and face or dust masks.
- 9. DON'T ABUSE CORD. Never carry tool by cord or yank it to disconnect from a receptacle. Keep cord from heat, oil and sharp edges. Have damaged or worn power cord and strain reliever replaced immediately.
- 10. 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.
- 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 safe operation. Follow instructions for lubricating and changing accessories. Have all worn, broken or lost parts replaced immediately.
- 13. DISCONNECT TOOLS. When not in use; before servicing; when changing accessories such as blades, bits, cutters, etc.
- 14. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and 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 marked "suitable for use with outdoors appliances store indoors when not in use."
- 17. BE SURE accessories and cutting tool are assembled securely to tool. EXTRA CARE must be taken when using tools on elevated locations (such as a roof, ladder, scaffold, or the like) to prevent injury to someone on a lower level in the event the tool and/or accessory should drop.
- **18. DO NOT USE** tools with cracked or warped housings, handles, etc. Dirt or moisture embedded in cracks can provide a current path to the exterior of the tool. This could produce a possible shock hazard, in the event a short should develop within the tool.

# REPLACEMENT PARTS

When servicing use only identical replacement parts.

# ADDITIONAL SAFETY RULES FOR ROTARY HAMMERS

- I. ALWAYS wear ear protectors when using for extended periods.
- 2. ALWAYS hold machine by the switch and auxiliary handle to prevent accidental electrical shock resulting from cutting a live wire when drilling or cutting into a wall or other blind area.
- 3. ALWAYS disconnect the hammer from the power circuit before installing or removing drills or other accessories.
- 4. ALWAYS make sure the latch is positioned to retain the drill or other accessory before starting the hammer.
- 5. ALWAYS use the auxiliary handle.
- ALWAYS keep your hands away from the latch while the hammer is in operation.
- 7. ALWAYS be sure the Hammer and Drill Indicating Lever is in the correct postion for the operation to be performed.

8. AVOID EXPLOSIVE ENVIRONMENT. It is characteristic of the type motor used in portable electric tools to faintly spark at the places where the brushes contact the armature commutator. This sparking is quite normal and will not harm the tool. Because of this sparking, however, portable electric tools should NEVER be started or run where there is any possible chance that a fire or explosion might occur due to the presence of manufactured or natural gas, gasoline, naphtha, some types of paint thinners, fumes from these thinners and paints thinned by them, etc.

## MOTOR

Most Rockwell tools will operate on either D.C., or single phase 25 to 60 cycle A.C. current and voltage within plus or minus 5 percent of that shown on the specification plate on the tool. Several models, however, are designed for A.C. current only. Refer to the specification plate on your tool for proper voltage and current rating.

**CAUTION:** Do not operate your tool on a current on which the voltage is not within correct limits. Do not operate tools rated A.C. only on D.C. current. To do so may seriously damage the tool.

# **EXTENSION CORD SELECTION**

If an extension cord is used, make sure the conductor size is large enough to prevent excessive voltage drop which will cause loss of power and possible motor damage. A table of recommended extension cord sizes will be found below. This table is based on limiting line voltage drop to 5 volts (10 volts for 230 volts) at 150% of rated amperes.

RECOMMENDED EXTENSION CORD SIZES FOR USE WITH PORTABLE ELECTRIC TOOLS

				ı	ength of	Cord in Fe	et			
	115V	25 Ft.	50 Ft.	100 Ft.	150 Ft.	200 Ft.	250 Ft.	300 Ft.	400 Ft.	500 Ft.
	230V	50 Ft.	100 Ft.	200 FT.	300 Ft.	400 Ft.	500 Ft.	600 Ft.	800 Ft.	1000 Ft.
	0.2	18	18	18	16	16	14	14	12	12
	2.3	18	18	16	14	14	12	12	10	10
Rating	3-4	18	18	16	14	12	12	10	10	8
	4-5	18	18	14	12	12	10	10	8	8
Sere	5-6	18	16	14	12	10	10	8	8	6
Ampere	6-8	18	16	12	10	10	8	6	6	6
	8-10	18	14	12	10	8	8	6	6	4
a d	10-12	16	14	10	8	8	6	6	4	4
Nameplate	12-14	16	12	10	8	6	6	6	4	2
Įž	14-16	16	12	10	8	6	6	4	4	2
	16-18	14	12	8	8	6	4	4	2	2
	18-20	14	12	8	6	6	4	4	2	2

## **FOREWORD**

Your ROCKWELL Hammer is designed for drilling holes in concrete and like materials - for setting self-drilling anchors - for chipping, chiseling, edging, channeling, scaling and other hammering where rotation is not required.

# **OPERATING INSTRUCTIONS**

# HOW TO USE THE HAMMER

Make sure hammer is disconnected from power circuit.

- Install bit or other accessory as outlined in section, "TO INSTALL BITS AND ACCESSORIES."
- 2. If the operation to be done requires the use of the depth gage, install and adjust it as outlined in, "TO INSTALL AND ADJUST DEPTH GAGE."
- 3. Put on safety goggles.
- 4. Connect hammer to power circuit. Make sure the power circuit voltage is the same as that shown on the specification plate on the hammer.
- 5. Set Hammer and Drill Indicator in the "D" position.
- 6. Grasp switch handle with one hand and the auxiliary handle with the other hand.
- 7. Place tip of bit or other accessory against the work and exert slight pressure.
- 8. Depress switch trigger to start hammer. NOTE HAMMER REQUIRES NO WARM-UP PERIOD. TOOL MAY BE PLACED IN OPERATION IMMEDIATELY.
- 9. Apply steady, even pressure during the complete operation.
- 10. As soon as the operation is completed, release switch trigger.
- 11. CAUTION Turn tool off when not in use to avoid excessive idling. Keep latch mechanism in proper working condition. Replace latch spring if broken or worn. This is your assurance that your hammer is protected against undue stress and damage.
- 12. When using tapered shank drill bits, make sure bit shank and tapered seat in the holder are clean and free of grease. Install drill in drill holder. Now, install drill assembly in hammer, following the instructions given in "TO INSTALL BITS AND ACCESSORIES." To remove drill bit from the holder, first remove the drill assembly from the hammer. Next, insert the drift key in the slot in the holder with the tapered face toward the bit. Drive key to loosen drill bit.

# TO INSTALL BITS AND ACCESSORIES

- 1. Disconnect machine from power source.
- 2. Clean bit or accessory shank end and apply a light film of grease to surface of shank.
- 3. Using a bar (A) or similiar object, pry latch bolt head (B) out of counterbore of latch (C), as shown in Fig. 1.

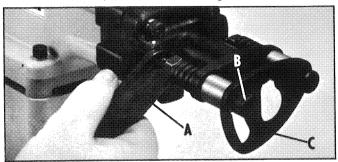


Fig. 1



Flg. 2

4. Pivot latch (C) to the open position, as shown in Fig. 2.

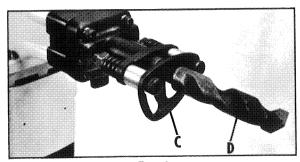


Fig. 3

5. Install bit (D) or other rotating accessory into nose and pivot latch (C) to locked position, as shown in Fig. 3.

6. When installing a NONROTATING type of accessory, bull point chisel, slotting tool, or the like, be sure the flats on the shank of accessory are positioned within the slot in the latch and the latch is pivoted to the locked position.

# HAMMER AND DRILL INDICATOR

A "T" shaped lever (A), having a "WHITE" end and a "BLACK" end, is located beneath the nosepiece Fig. 4.

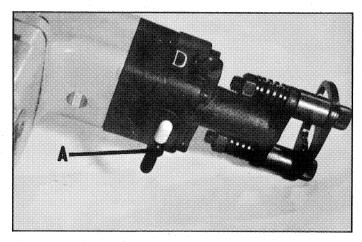


Fig. 4

When the "WHITE" end is towards the side of the nose marked "D", a revolving and hammering action is delivered to any accessory installed in the hammer. The hammer may be used with the lever in this position when using either Rotating or Nonrotating accessories. Nonrotating accessories will not rotate due to the design of the shank.

When the "WHITE" end is towards the side of the nose marked "H" only a hammering action is produced. ONLY Nonrotating accessories may be used with the lever in the position.

# INSTALLING SELF-DRILLING ANCHORS

An adapter is furnished with your hammer that accomodates Chuck Heads used to install self drilling anchors. It may be found help full to start the drilling operation for self drilling anchors with the Hammer and Drill Indicator Lever set in the "H" position until a spot is started to prevent the anchor from wandering. Then turn to "D" position for completing the hole. After the hole has been drilled, the lever is turned to the "H" position for driving the anchor into the hole.

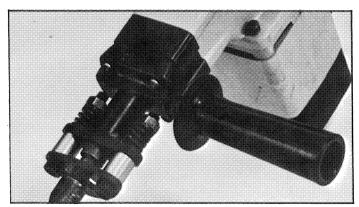


Fig. 5

# TO INSTALL AUXILIARY HANDLE

The auxiliary handle should always be used-especially when drilling. It may be installed on either side of the nose. Fig. 5, shows it on the left side.

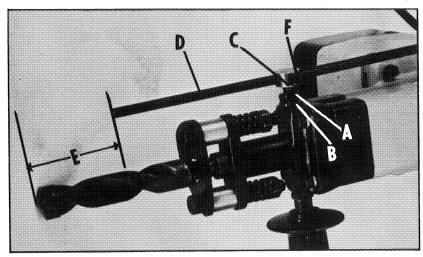


Fig. 6

# TO INSTALL AND ADJUST DEPTH GAGE

- 1. The depth gage may be installed in either the right or left side of the nose piece. For most convenient operation we suggest it be installed in the right side of the nose piece.
- 2. Thread nut (A) and lockwasher (B) on depth gage bracket screw (C) in that order. Assemble bracket screw (C) to nosepiece approximately three turns. Put depth stop rod (D) through hole in bracket screw (C). Hold rod (D) in line with bit or nosepiece and tighten nut (A) to secure bracket screw (C) on nosepiece. Adjust rod to desired dimension (E) and firmly tighten screw (F) with wrench furnished with hammer.

# MAINTENANCE

# KEEP TOOL CLEAN

Maintenance of your Rockwell Hammer is simple. Make a habit of keeping the air passages clear of dust and other debris by blowing them out daily. If working conditions are extremely dusty, blow out air passages more often. Clean, unclogged air passages assure a cooler running motor and contribute to longer motor life. When you clean the air passages, also clean the housings and check for loose screws. Tighten any that might have loosened. All plastic parts should be cleaned with a soft cloth. NEVER use solvents when cleaning plastic parts. Other than this, your hammer requires no maintenance.

# FAILURE TO START

Should your tool fail to start, check to make sure the prongs on the cord plug are making good contact in the outlet. Also, check for blown fuses or open circuit breakers in the line.

# BRUSH INSPECTION AND LUBRICATION

Brushes should be checked after approximately 100 hours use depending on the load the machine has been subjected to. Brush inspection, because of the 'double insulation' of this tool, should be handled ONLY by a Authorized Rockwell Service Center.

To add lubricant it is necessary to dismantle the tool. This operation should always be handled by the nearest Rockwell Authorized Service Center and we suggest lubrication be inspected during brush inspection.

Any loss of power before the above maintenance check may indicate the need for immediate servicing of your tool. DO NOT CONTINUE TO OPERATE TOOL UNDER THIS CONDITION. If proper operating voltage is present, return your tool to the Service Station for immediate service.

# SERVICE AND REPAIRS

All quality tools will eventually require servicing or replacement of parts due to wear from normal use. These operations, including brush inspection and replacement, should ONLY be performed by either an AUTHORIZED ROCKWELL SERVICE STATION or a ROCKWELL SERVICE CENTER. All repairs made by these agencies are fully guaranteed against defective material and workmanship. We can not guarantee repairs made or attempted by anyone other than these agencies.

Should you have any questions about your tool, feel free to write us at any time. In any communications, please give all information shown on the nameplate of your tool (model number, type, serial number, etc.).

# **ACCESSORIES**

# **DRILLING**

Your Rockwell Rotary Hammer is designed to utilize percussion type carbide tip bits in one piece shank configuration (A) Fig. 7. or taper shank configuration with drill holder (B) Fig. 7.

When using carbide tip bits, do not use water to settle the dust. The water might set up stresses in the carbide to cause it to crack and may cause bit to jam in the hole.

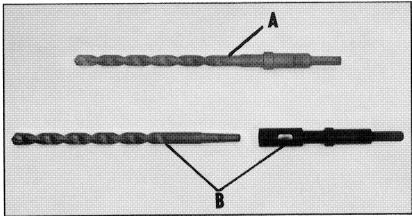


Fig. 7

# HAMMERING

Hammering accessories when installed in the hammer will have a hammering action only and will not rotate. Such accessories for instance are bull points, chisels, mortar chisels and caulking tools. Hammering accessories have shanks such as that shown in Fig. 8.

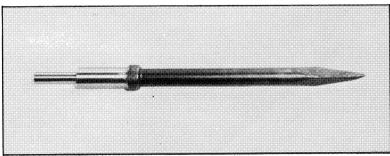


Fig. 8

The testing of these tools has been accomplished with the use of the following accessories ONLY. For safest operation, it is recommended that ONLY these accessories be used with this product.

**WARNING** - Since accessories other than those listed have not been tested with this product, use of such accessories could be hazardous.

# PERCUSSION TYPE CARBIDE-TIPPED DRILLS WITH HEX SHAPED SHANKS

ı	ORILL NO.	DIA.	LENGTH	MAX. DRILLING DEPTH
5	9206	1/2 "	11"	61/2 "
5	9209	1/2 "	161/2"	12"
5	9212	%6"	11"	61/2 "
5	9215	5/8″	11"	61/2"
5	9218	3/4 "	81/4"	4"
5	9221	7/8 "	81/4"	4"

## **BULL POINT**

BULL POINT NO.	LENGTH
59240	10″

# Control of the Contro

PERCUSSION TYPE CARBIDE-TIPPED DRILLS WITH "A" TAPER SHANK Requires drill holder for mounting to Hammers.

DRILL NO.	DIA.	LENGTH	MAX. DRILLING DEPTH
59500	1/4"	6"	4"
59503	%6″	6"	4"
59504	3/8 "	6″	4"
59506	3/8 "	9″	61/2 "
59509	7/6"	5″	3″
59512	15/32"	5″	3″
59515	1/2"	9″	61/2 "
59518	%6"	6″	4"
59521	5/8 "	9″	61/2"
59524	11/16"	8″	4"
59527	27/32"	6″	4"

## CONCRETE CHISEL

CONCRETE CHISEL NO.	LENGTH
59243	10"

# **SLOTTING TOOL**

TOOL NO.	SIZE	OVERALL LENGTH
59246	1/4"x 7/8"	10″

OVERALL LENGTH

10"

# 59263 DRILL HOLDER

For mounting "A" TAPER percussion carbide-tipped drills to Hammers

# CAULKING TOOL

MORTAR CHISEL

# **DRIFT KEY**

No. 59582. For use with drill holders.

59249	<b>7∕8</b> ″	
	- A	No.

TOOL NO.

TOOL NO.	DIA.	OVERALL LENGTH
59567	7/8″	10"

# **CARBIDE CORE BITS**



# Replacement Thread 59270.

,	SHANK	CORE DRILL BODIES	HOLE SIZE	MAX. DRILL DEPTH	STARTER DRILL
5	59268	59264 59265	1″ 1½″	6″ 6″	None Required

# **TOOTH ANCHOR ACCESSORIES**



For use with all self-drilling Tooth Anchors.

# SHARPENING ROCKWELL CARBIDE TIP BITS

After considerable use, the cutting edges of carbide tip bits become rounded, reducing the cutting efficiency. When this occurs, use a competent local grinding service or return the bit to your nearest Rockwell Service Center or Authorized Rockwell Service Station to have it sharpened.

Bits should be sharpened to the following specifications.

- 1. Use a fine (80 or 100) grit silicon carbide wheel. Grind dry or use a flooded wheel.
- 2. If edge (A) is rounded, true the included angle to 130 degrees until a sharp edge exists as in Fig. 9.
- 3. Grind narrow face of tip and supporting steel to 60 degrees as shown in section X-X, Fig. 9.
- 4. Grind wide face to 20 degrees and relieve supporting steel another 30 degrees as shown in section X-X, Fig. 9.

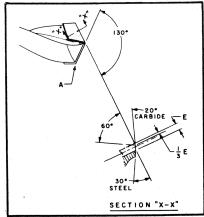


Fig. 9

- 5. Keep drill tip moving across the wheel during the grinding operation to avoid overheating, hollow grinding and possible damage to the carbide.
- 6. Do not quench the bit in water to cool it. Due to the sudden temperature change, stresses could be set up in the carbide to cause failure.
- 7. Slightly dull all sharp cutting edges with the wheel or a hone before using the bit to avoid cracking of the carbide.

## **ROCKWELL LIMITED ONE YEAR WARRANTY**

Rockwell International warrants its Professional Power Tools for a period of one year from the date of original purchase. We will repair or replace at our option, any part or parts of the product and accessories covered under this warranty which examination proves to be defective in workmanship or material during the warranty period. For repair or replacement, return the complete tool or accessory, transportation prepaid, to your nearest Rockwell Service Center or Authorized Service Station as listed under "Tools—Electric" in the Yellow Pages of your telephone directory. Proof of purchase may be required. This warranty does not apply to repair or replacement required due to misuse, abuse, normal wear and tear and/or repairs attempted or made by other than our Service Centers or Authorized Service Stations.

To obtain information on warranty performance please write to: Rockwell International, Power Tool Division, 400 North Lexington Avenue, Pittsburgh, Pennsylvania 15208; Attention Mr. Al Larkin, Customer Service Manager. The foregoing obligation is Rockwell's sole liability under this or any implied warranty and under no circumstances shall Rockwell be liable for any incidental or consequential damages. NOTE: Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.



# SERVICE CENTERS

#### ALABAMA

Birmingham 35209 Suite 105 131 West Oxmoor Road Phone: (205) 942-6325

#### ARIZONA

Phoenix 85017 3004 West Thomas Road Phone: (602) 269-5617

#### CALIFORNIA

Los Angeles 90007 2400 South Grand Avenue Phone: (213) 749-0386

Orange 92668 385 North Anaheim Blvd. Phone: (714) 634-4111

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Norfolk 23502 5335 E. Virginia Beach Blvd. Phone: (804) 461-8024

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Vancouver, B.C. V5Y 1L4 45 West 7th Avenue Phone: (604) 879-8622

#### MANITORA

Winnipeg, Manitoba R3H 0H2 1699 Dublin Avenue Phone: (204) 633-9259

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Guelph, Ontario N1H 6M7 644 Imperial Road Phone: (519) 836-4390

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Ottawa, Ontario K2P 0N9 207 Gilmour Street Phone: (613) 236-7459

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