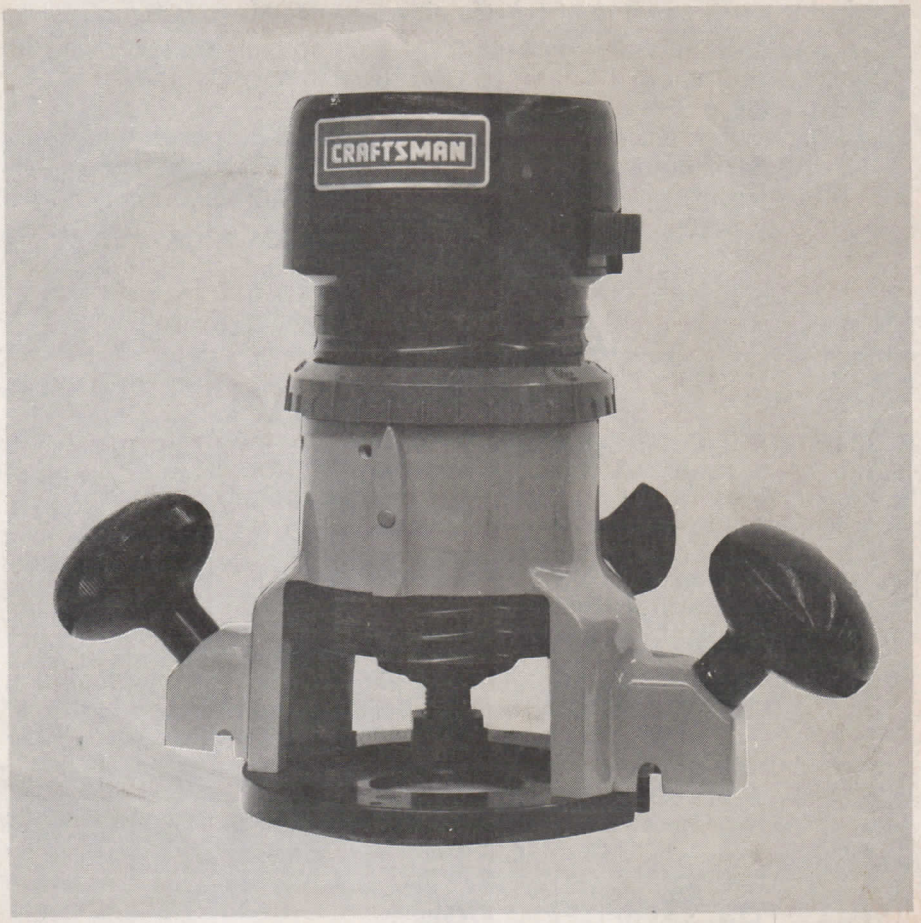
Sears

OWNERS MANUAL

MODEL NO. 315.17350

CAUTION: Read Rules for Safe Operation and Instructions Carefully




# CRAFTSMAN®

# ROUTER
## DOUBLE INSULATED

Introduction
Operation
Maintenance
Repair Parts

Designed exclusively for and sold only by
SEARS, ROEBUCK AND CO., Chicago, IL 60684 U.S.A. and SIMPSONS-SEARS LIMITED, Toronto, Canada

2-620263-662
1-77

PRINTED IN U.S.A.

FULL ONE YEAR WARRANTY ON CRAFTSMAN ROUTER

If this Craftsman Router fails to give complete satisfaction within one year from the date of purchase, return it to the nearest Sears store throughout the United States and Sears will replace it, free of charge.

If this router is used for commercial or rental purposes this warranty applies for only 90 days from the date of purchase.

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

SEARS, ROEBUCK AND CO.
BSC 41 - 3
SEARS TOWER
CHICAGO, IL 60684

# INTRODUCTION

**DOUBLE INSULATION** is a concept in safety, in electric power tools, which eliminates the need for the usual three wire grounded power cord and grounded supply system. Wherever there is electric current in the tool there are two complete sets of insulation to protect the user. All exposed metal parts are isolated from the internal metal motor components with protecting insulation.

**IMPORTANT**—Servicing of a tool with double insulation requires extreme care and knowledge of the system and should be performed only by a qualified service technician. For service we suggest you return the tool to your nearest Sears Store for repair. Always use original factory replacement parts when servicing.

We ask that you take a few minutes to read the following instructions so you can better enjoy the use of this new router. The booklet "How To Do More With Your Power Router" is packed with the tool. This booklet describes and illustrates many operations which can be performed with the Craftsman router.

## RULES FOR SAFE OPERATION

1. **KNOW YOUR POWER TOOL** — Read owner's manual carefully. Learn its applications and limitations as well as the specific potential hazards peculiar to this tool.
2. **GROUND ALL TOOLS — UNLESS DOUBLE-INSULATED.** If tool is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle. If adapter is used to accommodate two-prong receptacle, the adapter wire must be attached to a **known** ground. (Usually the screw securing receptacle cover plate). **Never** remove third prong.
3. **KEEP GUARDS IN PLACE** and in working order.
4. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
5. **AVOID DANGEROUS ENVIRONMENT.** Don't use power tool in damp or wet locations or expose to rain. Keep work area well lit.
6. **KEEP CHILDREN AWAY.** All visitors should be kept safe distance from work area.
7. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, high or locked-up place—out of reach of children.
8. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
9. **USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy duty tool.
10. **WEAR PROPER APPAREL.** No loose clothing or jewelry to get caught in moving parts. Rubber gloves and footwear are recommended when working outdoors.
11. **USE SAFETY GLASSES** with most tools. Also face or dust mask if cutting operation is dusty.
12. **DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil and sharp edges.
13. **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.
14. **DON'T OVERREACH.** Keep proper footing and balance at all times.
15. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp at all times, and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
16. **DISCONNECT TOOLS.** When not in use, before servicing; when changing attachments, blades, bits, cutters, etc.
17. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
18. **AVOID ACCIDENTAL STARTING.** Don't carry plugged-in tools with finger on switch. Be sure switch is off when plugging in.
19. **OUTDOOR USE EXTENSION CORDS.** When tool is used outdoors, use only extension cords suitable for use outdoors and so marked.

# OPERATION

**CAUTION: The router motor can be damaged by debris being sucked into the motor if the router is placed upside-down on the work surface before the motor stops.**

### INSTALLING/REMOVING CUTTERS

1. **Disconnect Router from power supply.**
2. Loosen wing nut on router base and remove the base assembly from the router.
3. Place the router less base assembly on a table or workbench. Insert shank of the cutter to within ⅛ inch of bottom of collet. See Figure 1.
4. Hold the output shaft with wrench (A) provided. **Do not try to hold the shaft with nut (B).**
5. Tighten the collet nut (C) securely with wrench (D) provided.
6. Remove cutters by loosening collet nut enough to allow cutter to slip easily from collet. **Should cutter not slip easily from collet continue loosening nut until nut presses against ring on collet and forces collet and cutter from router.** The collet is machined to precision tolerances to fit cutters with ¼" diameter shank size. Do not tighten the collet to hold cutters that are undersized. The result may be a bent collet which will not accept standard cutters.
7. Replace base on router.

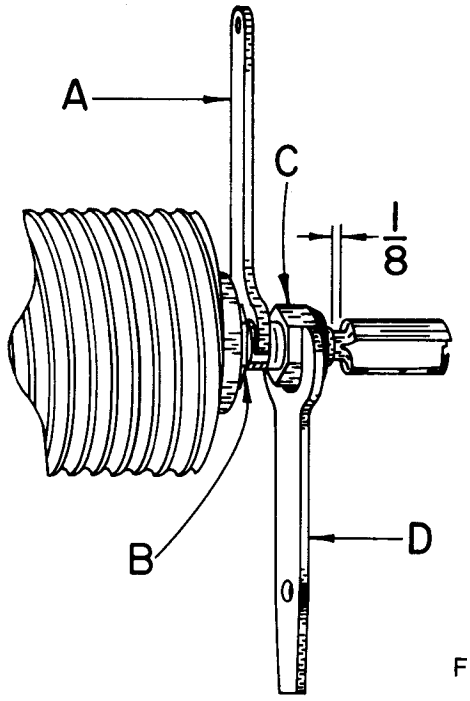


Fig. 1

### DEPTH OF CUT ADJUSTMENTS

When using a small diameter cutter on soft woods, the depth of cut may be as far as the cutter will go. When larger cutters are used in hardwoods, we recommend that the cuts be made at a depth not exceeding ⅛" and that several passes be made to reach the required depth.

1. **Disconnect router from power supply before adjusting for depth of cut.**
2. Place the router on a flat surface and loosen wing nut (E). See Figure 2.
3. Turn the adjusting collar (F) until tip of cutter touches flat surface.
4. Position the router so that the bit can extend below the sub-base for desired depth setting.
5. Turn the adjusting collar to obtain the desired depth of cut. The distance the cutter moves can be read on the adjusting collar. Each fourth mark on adjusting collar indicates 1/32 inch change in depth setting. An indicator point is located on the front of router base.
6. After desired depth of cut has been reached, tighten wing nut securely before operating router.

**Be absolutely certain wing nut is firmly tightened if router is to be used in an inverted position.**

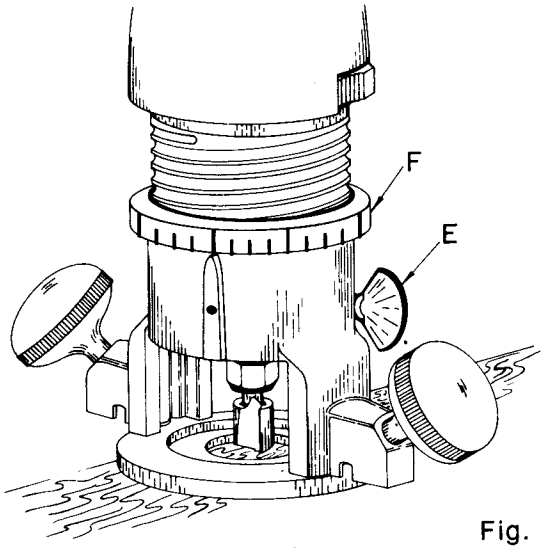


Fig. 2


**The operation of any power tool can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields before commencing power tool operation. We recommend Wide Vision Safety Mask for use over spectacles, or standard safety glasses . . . available at Sears retail or catalog stores.**

# MAINTENANCE

**WHEN SERVICING USE ONLY IDENTICAL REPLACEMENT PARTS.**

## PROPER CARE OF CUTTERS

Get faster more accurate cutting results by keeping cutters clean and sharp. Remove any accumulated pitch and gum from cutters with kerosene.

When sharpening a cutter, sharpen only the inside of the cutting edge. Never grind the outside diameter.

Be sure when sharpening the end of a cutter to grind the clearance angle the same as originally ground.

## SWITCH REPLACEMENT

1. **Disconnect router from power supply.**
2. Remove two screws (G) which secure the end cap (H) and lift end cap off. See Figure 3.
3. Note location of all wiring and how each connection is made to the switch. Connections and wiring positions must be identical when installing the new switch.
4. Unscrew wire connector (N) from the switch and cord leads. Pull the lead terminal on the other switch lead to remove it from the brush tube and remove switch from router.
5. Connect the replacement switch lead with terminal to the brush tube. Make the other connection by holding the two bare leads side by side and tightening the wire connector over them.
6. Arrange the wiring so that it will not contact moving parts of the motor or be pinched when the end cap is replaced.
7. Place the switch in its proper position and replace end cap and screws.
8. Make sure switch is off before connecting to power supply.

## CORD REPLACEMENT

1. **Disconnect router from power supply.**
2. Remove two screws (G) which secure the end cap (H) and lift end cap off. See Figure 3.
3. Note location of all wiring and how each connection is made to the cord. Connections and wiring positions must be identical when installing the new cord.
4. Unscrew wire connectors (N and O). Remove two screws (P), clamping plate (Q) and cord.
5. Place the bend relief (L) on new cord. Make the lead connections by holding the proper leads together and tightening the wire connectors over them.
6. Place cord in its proper location and replace clamping plate and secure with screws.
7. Make sure bend relief, switch, and all leads are properly located. Replace end cap and secure with screws.

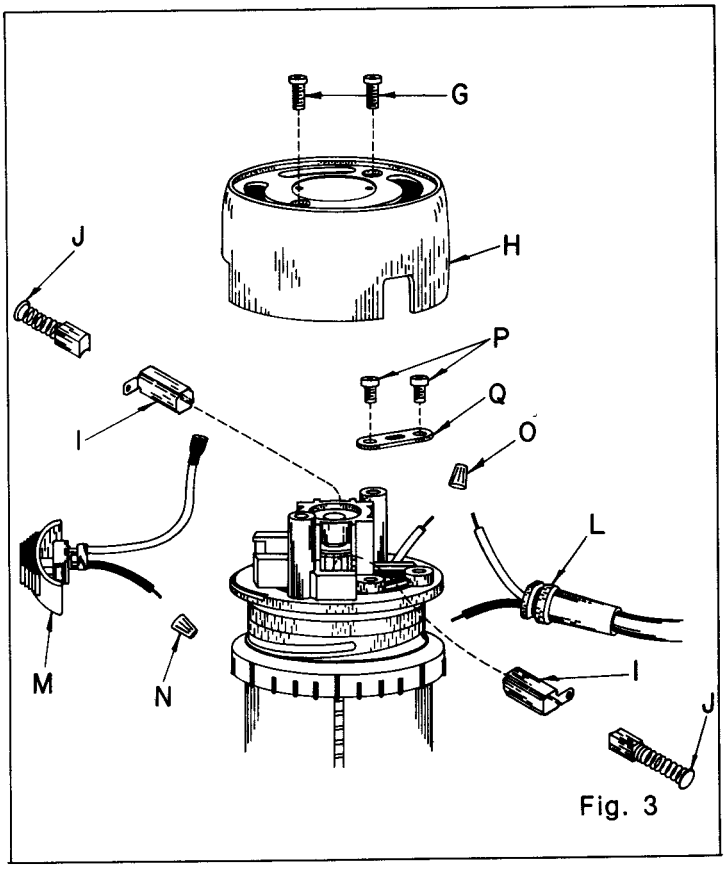


Fig. 3

## BRUSH REPLACEMENT

Periodically check brushes for wear and replace both brushes when either is worn to about ¼ inch in length. To check length of brushes they must be removed from the unit. Replacement of these inexpensive parts when necessary will keep your router operating more efficiently and prolong the life of the motor.
Replacement of worn-out brushes is considered normal operating maintenance and is not covered by warranty.

1. **Disconnect router from power supply.**
2. Remove two screws (G) which secure the end cap (H) and lift end cap off. See Figure 3.
3. Remove brush tube (I) containing brush assembly (J) from the router.
4. Remove brush assembly from brush tube.
5. Insert new brush assembly into the brush tube.
6. Replace the brush tube containing the new brush assembly in its original position.
7. Make sure bend relief (L), switch (M), and all leads are properly positioned.
8. Replace end cap and screws.

## GENERAL

Only the parts shown on parts list, page seven, are intended to be replaced by the customer. Parts listed in Section A represent an important part of the double insulation system and should be serviced only by a qualified service technician.

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, carbon dust, etc.

When electric tools are used on fiberglass boats, sports cars, etc. it has been found that they are subject to accelerated wear and possible premature failure, as the fiberglass chips and grindings are highly abrasive to bearings, brushes, commutators, etc. Consequently it is not recommended that this tool be used for continuous production work on any fiberglass material. During any use on fiberglass it is extremely important that the tool is cleaned frequently by blowing with an air jet.

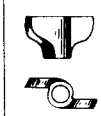
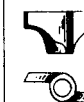
## EXTENSION CORDS

The use of any extension cord will cause some loss of power. To keep the loss to a minimum and to prevent tool overheating, follow the recommended cord sizes on the chart at right. When tool is used outdoors, use only extension cords suitable for outdoor use and so marked. Extension cords are available at Sears Catalog Order or Retail Stores.

| Extension Cord Length | Wire Size A.W.G. |
|---|---|
| 25-75 Feet | 16 |
| 75-100 Feet | 14 |

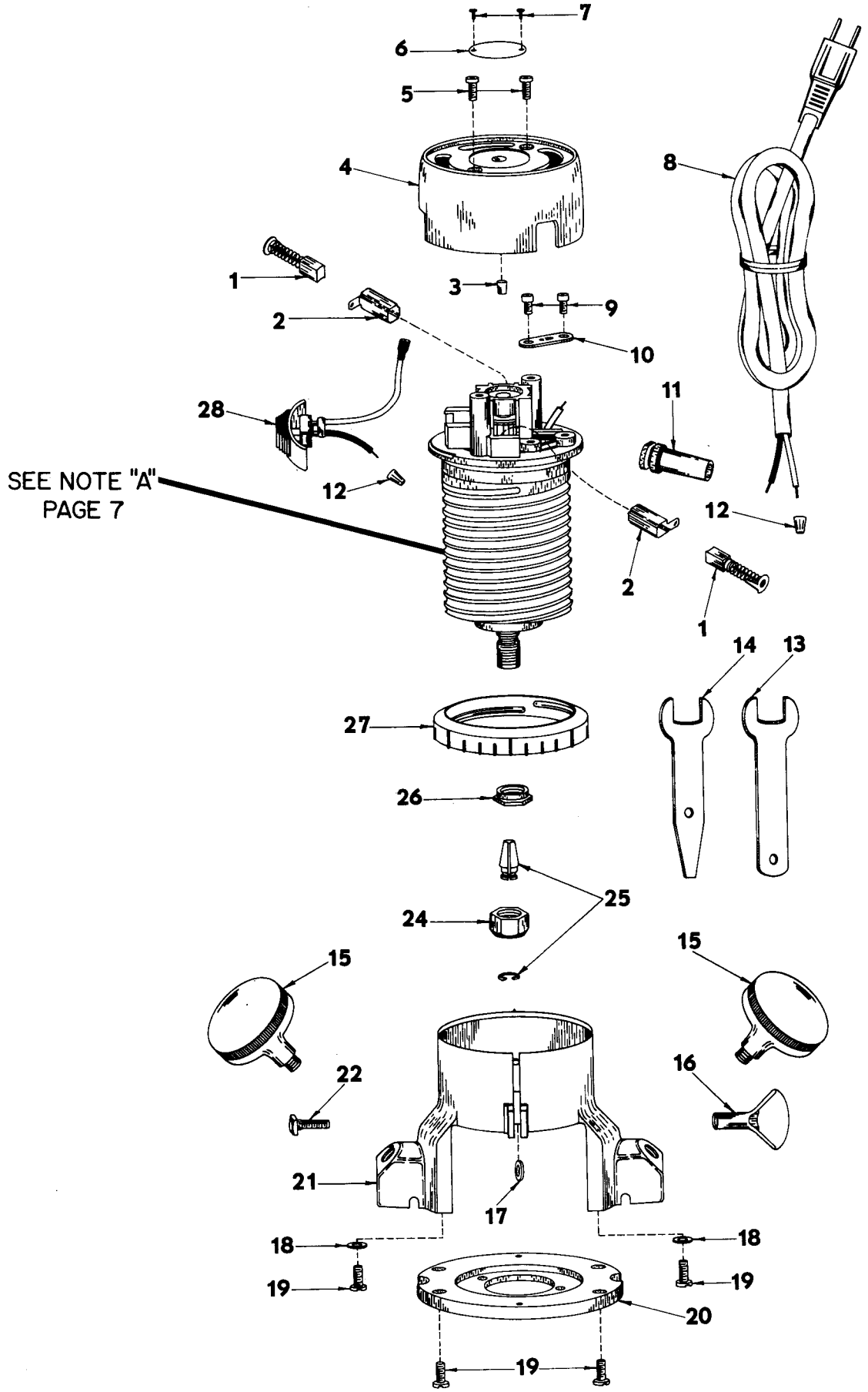
## THE FOLLOWING RECOMMENDED ACCESSORIES WERE AVAILABLE AT THE TIME THIS MANUAL WAS PRINTED.

½-inch Dovetail Template (9 2571)
¼-inch Finger Template (9 2574)
Butt Hinge Template (9 2575)
Butt Hinge Template (9 2564)
¼ or ½-inch Dovetail Template (9 2576)
Router-Crafter (9 2525C)
Template Guide Bushings (9 25069)
Adjustable Edge Guide (9 25172)
Template Set (9 25182)
Adjustable Edge Guide With Contour Finger (9 25173)

| COMBINATION PANEL CUTTER | VEINING BITS | CORE BOX BIT | STRAIGHT FACE BITS | COMBINATION STRAIGHT, BEVEL CUTTER | HINGE MORTISING BIT | DOVETAIL CUTTER BITS | RABBET BIT | OGEE | COVE BIT | BEAD QUARTER-ROUND BITS | ARBORS |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  2554-1/4" *2554I-1/4" |  25599-1/16" 2559-1/8" 25592-3/16" 25593-7/32" 25594-3/4" DOUBLE END 25545 45°,60° V-GROOVE |  25596-1/2" V-GROOVE CHAMFER  2557-1/2" *25578-1/2" |  2552-1/8" 25521-1/4" 25522-3/8" 25523-1/2" 25529-3/4" *25524-1/4" *25525-5/16" *25526-3/8" *25527-1/2" |  FOR FORMICA *2541 VENEER CUTTER STRAIGHT *25413 BEVEL *25412 |  1/2" 2555 |  2553-1/4" 25531-1/2" |  1/4, 5/16, 3/8" 25581 *25582 |  ROMAN O 25587-5/32" 25588-1/4" |  45° CHAMFER BIT 25589 |  25563-1/4" 25562-3/8" 25561-1/2" *25566-3/8" *25565-1/2" |  WITH 2 BALL BEARINGS (1/2 & 5/8") 25895 |

* CARBIDE TIPPED BITS

**CAUTION: The use of attachments or accessories not listed above might be hazardous.**


7
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28
SEE NOTE "A"
PAGE 7
12
12
2
1
14
13
27
26
25
24
15
15
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## CRAFTSMAN ROUTER—MODEL NUMBER 315.17350

The Model Number will be found on a plate attached to the End Cap. Always mention the Model Number in all correspondence regarding your ROUTER or when ordering repair parts.

**SEE BACK PAGE FOR PARTS ORDERING INSTRUCTIONS**

# PARTS LIST

| Key No. | Part Number | Description | Quan. |
|---|---|---|---|
| 1 | 2-623897-03 | Brush Assembly | 2 |
| 2 | 2-617936-01 | Brush Tube | 2 |
| 3 | 1-617834-01 | Bumper | 2 |
| 4 | 3-617756-01 | End Cap | 1 |
| 5 | 1-614658-04 | *Screw (#8-32 x ½ Pan Hd.) **STD510805 | 2 |
| 6 | 2-617761-01 | Data Plate | 1 |
| 7 | 1-795247-10 | Drive Screw | 2 |
| 8 | 2-610645-01 | Cord | 1 |
| 9 | 1-617966-07 | Screw (#8-10 x ½ Pan Hd. T.F.) | 2 |
| 10 | 1-616287-01 | Cord Clamping Plate | 1 |
| 11 | 2-622824-01 | Bend Relief | 1 |
| 12 | 1-623173-01 | Wire Nut (For #16 and/or #18 wire) | 2 |
| 13 | 1-610637-03 | Wrench | 1 |
| 14 | 1-623813-03 | Wrench | 1 |
| 15 | 6-606179-00 | Knob Assembly | 2 |
| 16 | 2-623815-02 | Wing Nut | 1 |
| 17 | 1-931744-801 | Washer | 1 |
| 18 | 1-931744-815 | Washer **STD551010 | 2 |
| 19 | 1-615644-01 | *Screw (#10-32 x 7/16 Pan Hd. T.C.) | 6 |
| 20 | 3-617427-01 | Sub-base | 1 |
| 21 | 4-617710-04 | Base with Pin | 1 |
| 22 | 1-623166-02 | *Bolt (¼-20 x ¾ Square Hd.) **STD522507 | 1 |
| 24 | 1-617763-04 | Collet Nut | 1 |
| 25 | 6-610662-00 | Collet with Retaining Ring | 1 |
| 26 | 1-617764-03 | Jam Nut | 1 |
| 27 | 3-617762-01 | Adjusting Collar | 1 |
| 28 | 2-617825-03 | Switch Assembly | 1 |
| | 2-620263-662 | Instruction Sheet | |

**NOTE: "A"—The assembly shown represents an important part of the Double Insulated System. To avoid the possibility of alteration or damage to the System, service should be performed by your nearest Sears Electric Motor Shop/ Specialty Repair Center. Contact your nearest Catalog Order or Retail Store.**

***Standard Hardware—May Be Purchased Locally** ****Available From Div. 98—Source 980.00**

Sears

OWNERS MANUAL

SERVICE

MODEL NO.
315.17350

HOW TO ORDER REPAIR PARTS

# CRAFTSMAN®

# ROUTER

## DOUBLE INSULATED

Now that you have purchased your Router, should a need ever exist for repair parts or service, simply contact any Sears Service Center and most Sears, Roebuck and Co. or Simpsons-Sears Limited stores. Be sure to provide all pertinent facts when you call or visit.

The model number of your Router will be found on the plate attached to the end cap.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- PART NUMBER
- PART DESCRIPTION
- MODEL NUMBER
  315.17350
- NAME OF ITEM
  Router

All parts listed may be ordered from any Sears Service Center and most Sears stores.

If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for handling.

SEARS, ROEBUCK AND CO., Chicago, IL 60684 U.S.A. and SIMPSONS-SEARS LIMITED, Toronto, Canada