

# ASSEMBLY, OPERATING INSTRUCTIONS AND PARTS LIST FOR CRAFTSMAN JOINTER-PLANER

4 1/8-INCH

**MODEL NUMBER 113,21862**

The model number of your Jointer-Planer will be found on the name and model number plate. Always mention this model number when communicating with us regarding your Jointer-Planer or when ordering parts.

Carefully read the instructions provided, observe the simple safety precautions and you will have many hours of satisfactory use from your new Craftsman tool.

## HOW TO ORDER REPAIR PARTS

All parts listed herein may be ordered through SEARS, ROEBUCK AND CO. or SIMPSONS-SEARS LIMITED. When ordering parts by mail from the mail order house which serves the territory in which you live, selling prices will be furnished on request or parts will be shipped at prevailing prices and you will be billed accordingly.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST:

1. The PART NUMBER
2. The PART NAME
3. The MODEL NUMBER—113.21862
4. The NAME of item—JOINTER-PLANER

## COAST TO COAST NATION-WIDE SERVICE FROM SEARS FOR YOUR CRAFTSMAN JOINTER-PLANER



SEARS, ROEBUCK AND CO. and SIMPSONS-SEARS LIMITED in Canada back up your investment with quick, expert mechanical service and genuine CRAFTSMAN replacement parts.

If and when you need repairs or service, call on us to protect your investment in this fine piece of equipment.

**SEARS, ROEBUCK AND CO.-U. S. A.  
IN CANADA, SIMPSONS - SEARS LIMITED**



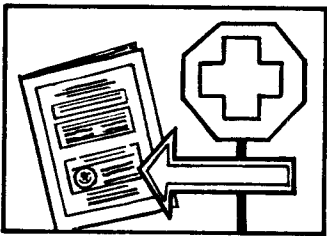
# POWER TOOL SAFETY...AND YOU

**3 MINUTES** of required reading for the home Craftsman... whether this is your first purchase or you're an old hand at power tools.

YOU'VE JUST BOUGHT A QUALITY SEARS TOOL, designed to give you many years of top performance and trouble-free operation. It's also designed with

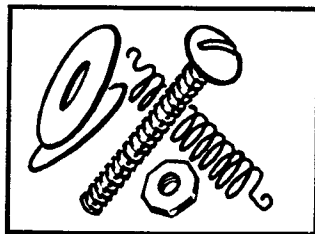
safety in mind, permitting you to use the tool without concern so long as certain basic rules are observed.

We'd like to call particular attention to some of the more **important rules** to follow for maximum enjoyment of your Sears power tools.



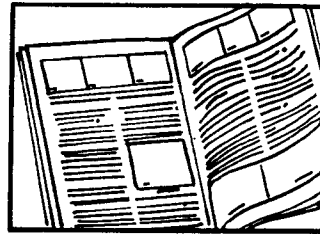
## 1. READ THE INSTRUCTION MANUAL...

completely • accurately. Pay special attention to safety precautions and use of safety features.



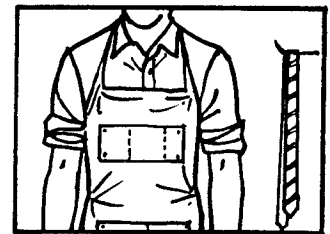
## 2. INSPECT THE POWER TOOL THOROUGHLY

Set up the machine according to instructions. Make certain all parts are included.



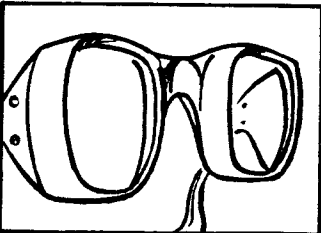
## 3. FOLLOW OPERATING INSTRUCTIONS CAREFULLY

They have been developed to insure correct procedure and prevent accidents.



## 4. DRESS PROPERLY FOR THE WORKSHOP

Get rid of loose clothing, roll up sleeves, remove your tie, wear a snug-fitting shop apron.



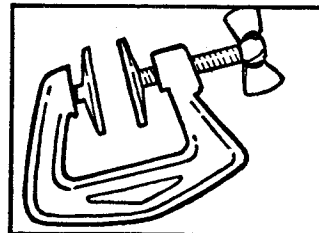
## 5. WEAR SAFETY GLASSES

Safety glasses or eye shields are recommended for all power tool operations.

## 6. USE PROPER ELECTRICAL CONNECTIONS

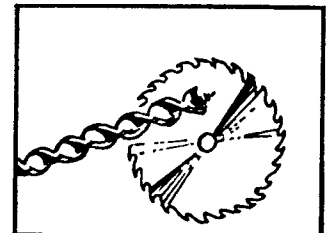
Make certain proper voltage (110 or 220) is used. USE A GROUND WIRE; AND A SUITABLE PLUG, IF REQUIRED. Check fusing requirements of the tool as outlined in the instruction manual.

Get in the habit of turning off the tool when not in use.



## 7. DOUBLE-CHECK HOLDING FIXTURES

Lock all clamps tightly. Spin parts by hand to check against misalignment or looseness before turning on tool.



## 8. KEEP CUTTING TOOLS SHARP

Make certain blades, drills, cutters, etc., are in top shape. Dull tools can cause rough cuts, excessive chipping... and accidents.



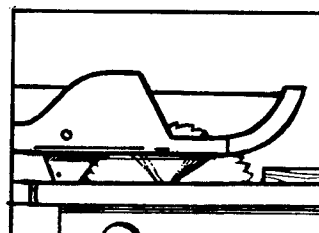
## 9. DON'T EXCEED THE LIMITS OF THE POWER TOOL

Abusing the power tool by doing work beyond its capacity reduces its life and increases the chance of injury to the operator. Watch especially the sizes of the work and feed rate.



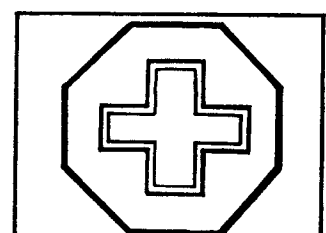
## 10. KEEP SPECTATORS AWAY

Curiosity and interest on the part of the family is fine, but avoid inspections when the power tool is running.



## 11. SAFETY GUARDS

Accessory safety guards are available for most tools. Use of these guards is highly recommended.



## 12. THINK SAFETY

Carefully plan each operation before turning on tool.

# OPERATING INSTRUCTIONS FOR CRAFTSMAN 4-1/8" JOINTER-PLANER MODEL No. 113.21862

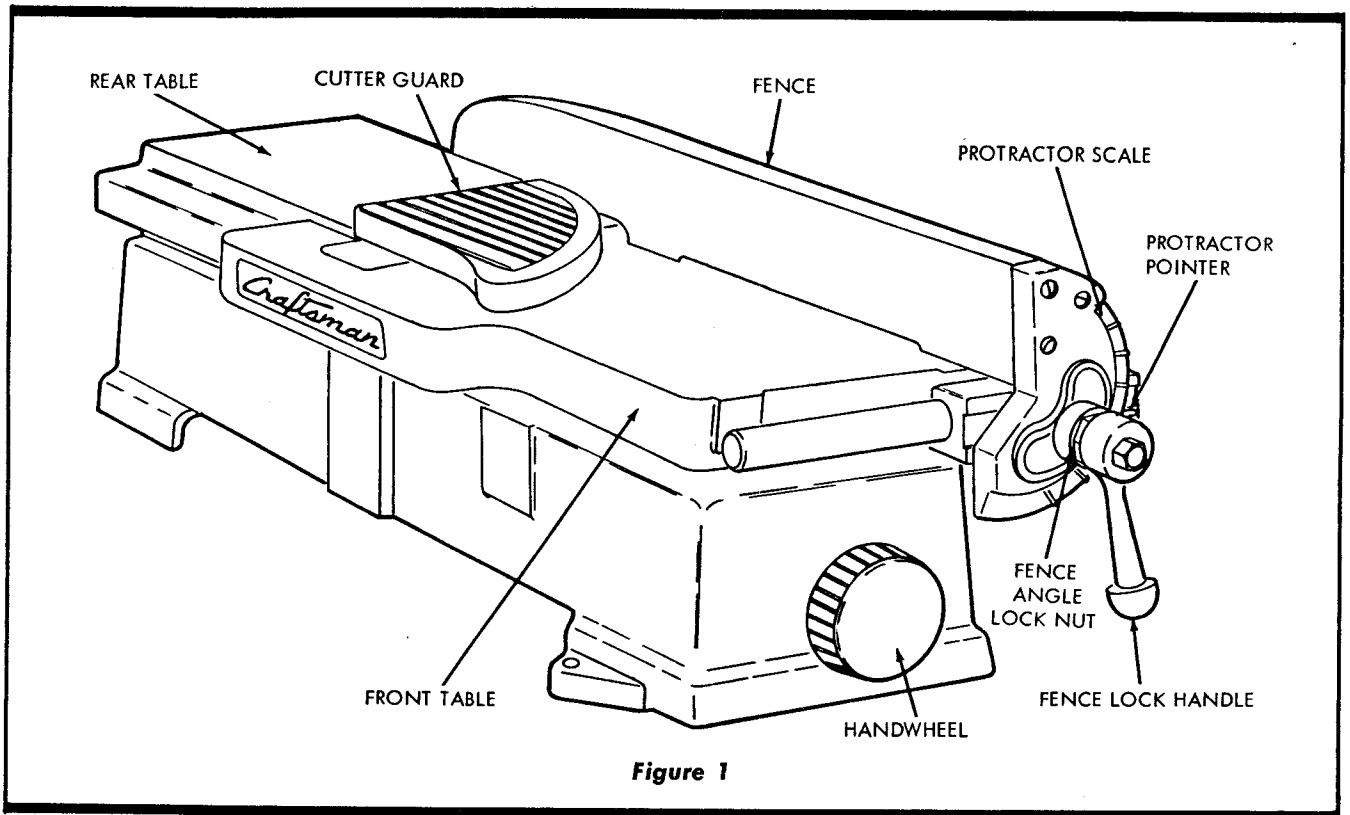


Figure 1

This Craftsman Jointer-Planer is designed for accuracy and versatility. Heavy, iron castings used throughout provide the rugged stability required for precision jointing, as well as regular planing operations.

## ASSEMBLY

This jointer-planer has been completely assembled, inspected and power tested at the factory. To protect the tool from damage during shipment, the cutter guard has been removed. To install the cutter guard insert it into the hole provided in the movable table.

## INSTALLATION

1. Three 11/32-inch diameter holes are provided in the base of the jointer-planer for attaching it to a tool stand or substantial work bench.
2. Install the motor below the jointer-planer.

## MOTOR

1. A 1/2-horsepower, 3450 rpm motor, with a 5/8-inch diameter shaft is recommended for operating this jointer-planer.
2. The 2-1/2-inch diameter pulley supplied fits a 5/8-inch diameter motor shaft. If your motor has a 1/2-inch diameter shaft, a bushing will be required.

## SPEED

The recommended motor equipped with a 2-1/2-inch diameter pulley will drive the arbor at a speed of approximately 4500 rpm.

## BELT

The jointer-planer pulley is designed for a standard 1/2-inch V-belt.

The V-belt supplied will accommodate all standard bench and tool stand applications. If a special length belt is required, use a standard 1/2-inch V-belt.

## LUBRICATION

1. The bearings used in this jointer have been packed in a "permawick" oil retaining filler. As oil is used it may be replenished through the oil holes in the top of the bearing block.
2. Oil should be applied occasionally to the upper and lower slides, and to the fence slide bar.

## CONTROLS

(See figure 1.)

1. The position of the fence is maintained by the clamping action of the fence angle lock nut and hex head machine bolt. The fence may be positioned at any point across the table by loosening the hex head machine bolt with the fence lock handle.
2. The fence lock handle may be disengaged after use on the angle lock nut or the machine bolt and will hang in a neutral position. The angle nut may be loosened to change the angle of the fence. The protractor scale and pointer indicates the angle selected.

**CAUTION:** Check the angle nut and machine bolt to make sure they are tight after changing the fence.

3. The handwheel is used to raise and lower the front table thus regulating the depth of cut.

## OPERATION

AN INTERESTING AND THOROUGH BOOKLET ABOUT JOINTER OPERATIONS ACCOMPANIES THIS TOOL.

## ADJUSTMENTS

### 1. FENCE

- If a 90° setting of the fence protractor does not produce true cuts, set a combination square against the face of the fence to establish the 90° position.
- Adjust the pointer on the protractor to provide a correct reading.

### 2. FRONT TABLE

— Due to rough handling during shipment the front table may need adjusting as follows:

- Lay a straightedge across both tables. (See figure 2.)
- Loosen (slightly) the three hex-head lock screws that pass through the leveling studs. (See figure 3.)
- Adjust the three leveling studs under the front table, to bring the front and rear tables into the same plane.
- Tighten the lock screws after the adjustment has been completed. Make sure the table is correctly adjusted both laterally and longitudinally.
- Trial cuts should be made after any adjustment or repositioning, in order to make sure of results.

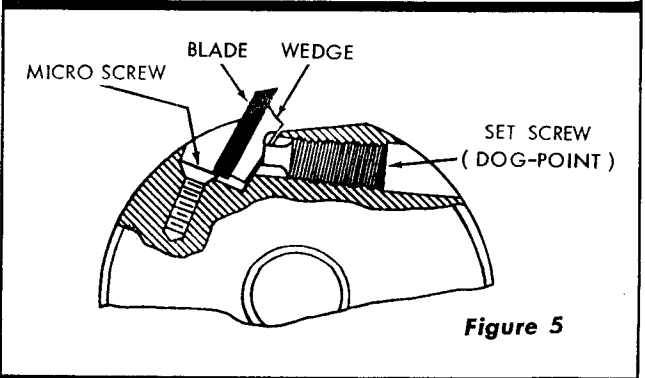
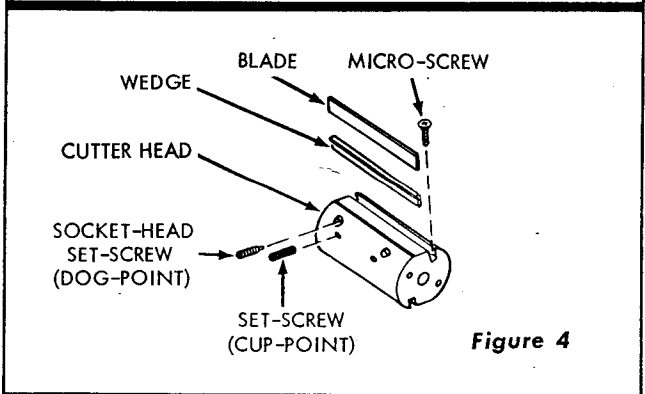
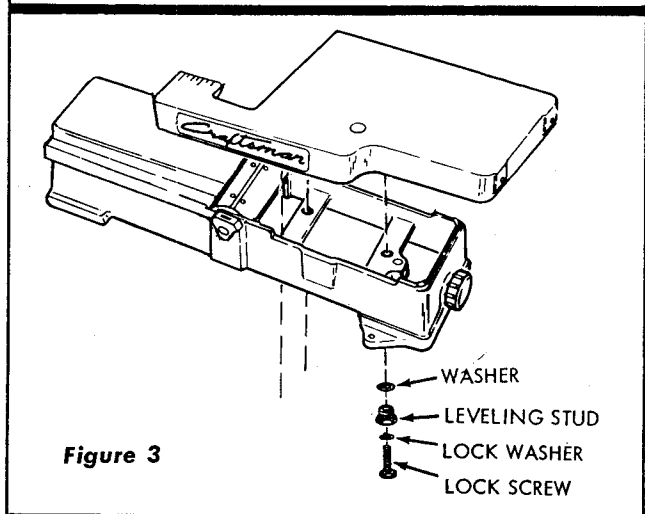
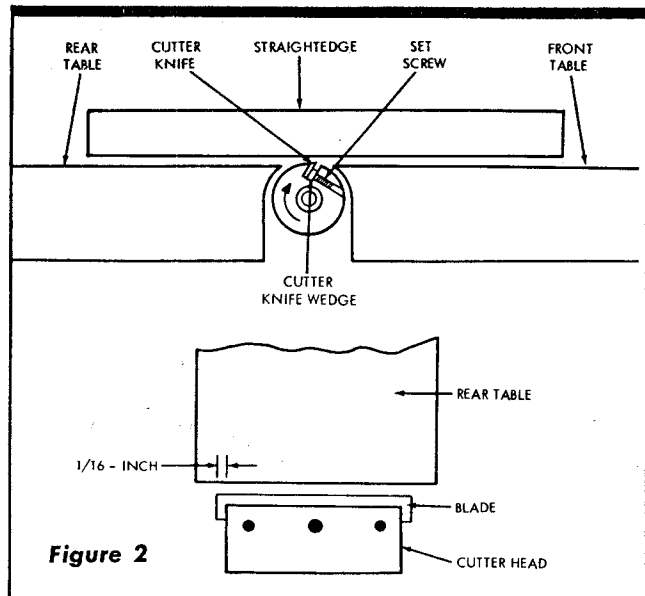
### 3. RESETTING BLADES

- Although the blades may be resharpened, it is recommended they be discarded when dulled or nicked and new ones purchased (Catalog No. 9-21866) from the nearest Sears Retail Store or Mail Order House. (See figure 4.)
- When blades are removed from the cutter head for any reason, extreme care should be exercised during replacement.
- Install the blades so they project 1/16-inch at right-hand end of cutter head. (See figure 2.) The cutting edges should project slightly below the surface of rear table.
- Clamp the blades lightly in position with the dog-point, socket-head set screws and wedge. (See figure 5.)
- With a straightedge placed on the surface of rear table and projecting over the cutter head, position the blades by rotating the micro screws until the knife edge of each blade just touches the straightedge lightly at both ends, while the cutter head is rotated back and forth (by hand). When each blade has been aligned in the above manner, tighten the dog-point set screws securely.

**NOTE:** Each time a micro screw is rotated the blade should be tapped down firmly in contact with the screw head, using a small wood block.

## SAFETY

- Always stop the jointer-planer before making any adjustments.
- After installing blades, check to see that all six set screws have been tightened securely. (See figure 5.)
- Tighten all pulley set screws after a few hours of operation.
- When surfacing thin stock (1/2-inch or less), a push block should always be used.
- Keep cutter guard in position when the jointer-planer is in operation.



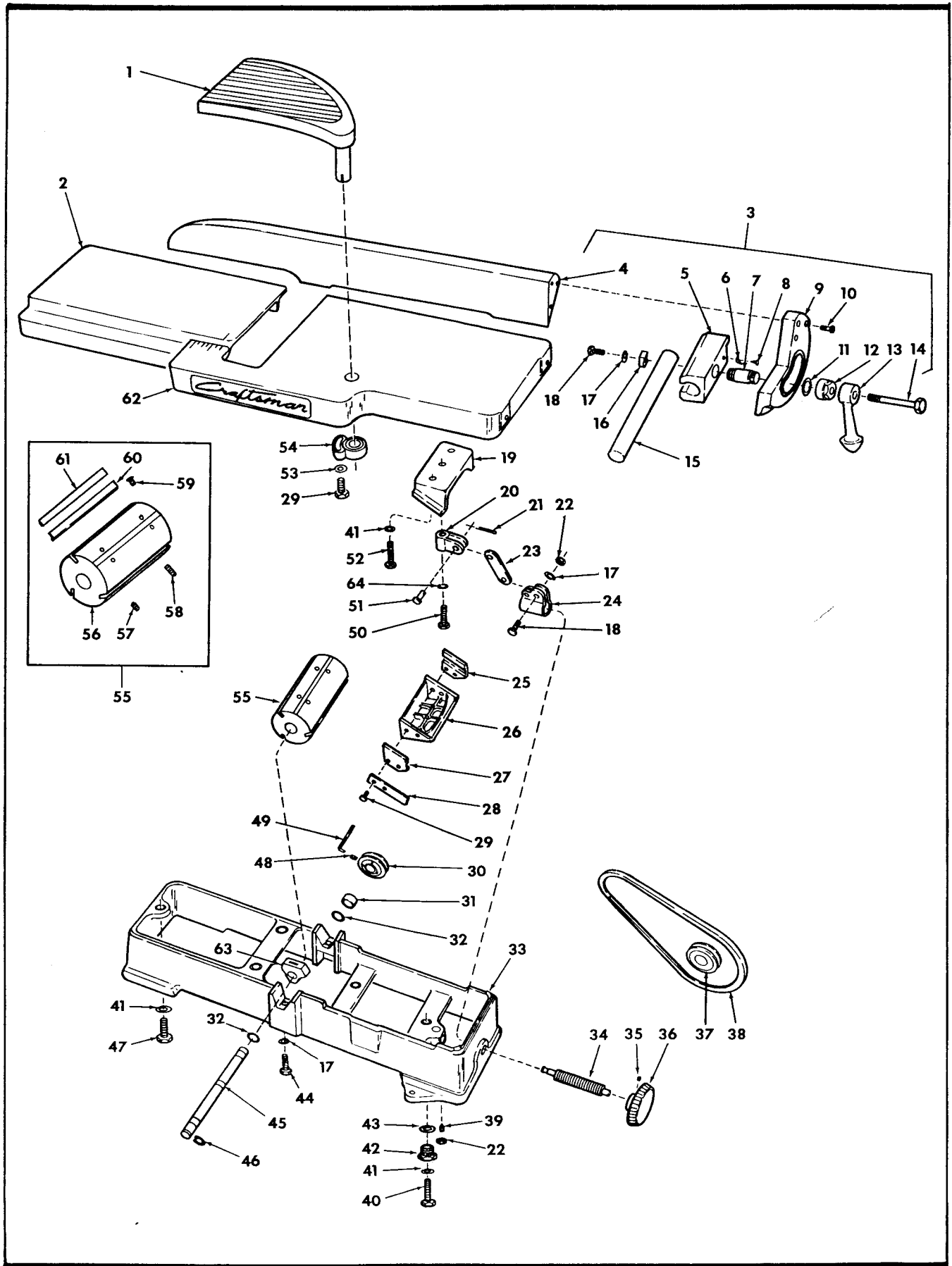
## TROUBLE SHOOTING CHART

TROUBLE	PROBABLE CAUSE	REMEDY
Fence binds when moved across table.	Fence bar out of alignment.	Re-adjust, making top of bar absolutely parallel to top of table.
Fence not resting on table after locking.	Bound up on protractor lock stud.	Loosen lock handle — hold fence body down on table top and relock.
Work piece strikes rear table after passing over cutting blades.	Blades improperly adjusted below surface of rear table.	Re-adjust blades .003 to .004 above rear table.
Ripple cut when planing.	1. One blade doing all the cutting. 2. Too slow a speed.	1. Re-adjust blades so all three are parallel and same distance from top of rear table. 2. Check motor (3450 RPM) and proper pulley size.
Taper — Cut.	Front table out of adjustment.	Re-adjust front table parallel with rear table with hex-head leveling studs.
Front table elevates hard.	Binding of elevation screw and clevis.	Lubricate control screw and threads from underside the clevis.

### CRAFTSMAN BENCH POWER TOOL GUARANTEE

We guarantee all Craftsman Jointer-Planers to be free from defects in material and workmanship. When properly used, cared for and maintained, we will replace or repair at our option and install without cost to you, for a period of one (1) year from date of sale, any part which proves, upon our examinations, to be defective under normal use. This guarantee doesn't apply to Jointer-Planers used in rental service.

**PARTS LIST FOR CRAFTSMAN 4-1/8" JOINTER-PLANER  
MODEL No. 113.21862**



**PARTS LIST FOR CRAFTSMAN 4-1/8" JOINTER-PLANER  
MODEL No. 113.21862**

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN ON THIS LIST:

- |                    |                                      |
|--------------------|--------------------------------------|
| 1. THE PART NUMBER | 3. THE MODEL NUMBER — 113.21862      |
| 2. THE PART NAME   | 4. THE NAME OF ITEM — JOINTER-PLANER |

Always order by Part Number — not by Key Number

**PARTS LIST**

Key No.	Part No.	Description	Key No.	Part No.	Description
1	29650	Guard	35	426094	*Screw, Set, No. 10-24 x 1/4, Soc. Hd.
2	29224	Table, Rear	36	38440	Wheel Hand (with Set Screw)
3	29403	Fence Assembly, Complete	37	30646	†Pulley
4	29227	Fence	38	67000	†Belt "V" Type (1/2 x 30)
5	29814	Slide, Fence	39	60100	Screw, Set, 1/4-20 x 5/8, Slot Hd.
6	18922	Pointer, Protractor	40	60101	*Screw, 5/16-18 x 1-3/4, Cap
7	29634	Stud, Protractor, Lock	41	116120	*Washer, Lock, 5/16
8	60105	*Screw, Self Tapping, No. 6-32 x 1/4	42	18516	Stud, Leveling
9	29414	Protractor	43	18437	Washer
10	132266	*Screw, Mach., 1/4-20 x 3/4, Fil. Hd.	44	60102	*Screw, 1/4-20 x 1, Soc. Hd.
11	29712	Washer, Fibre	45	29636	Arbor
12	29412	Nut, Fence Angle Lock	46	38715	Ring, Retaining
13	29411	Wrench, Fence Adjusting	47	60038	*Screw, 5/16-18 x 1-1/4, Hex. Hd.
14	60097	*Bolt, Mach., 5/16-18 x 2-3/4, Hex. Hd.	48	115321	*Screw, Set, 5/16-18 x 5/16, Soc. Hd.
15	29613	Bar, Fence Slide	49	37887	*Wrench, Allen 1/8 (Short)
16	29413	Spacer, Fence Slide Bar	50	60103	*Screw, Mach., 5/16-18 x 1-1/4, w/Ext. Tooth L/washer
17	115109	*Washer, Lock, 1/4	51	18713	Pin, Clevis
18	60098	*Screw, 1/4-20 x 1, Hex. Hd., Cap	52	60033	*Screw, 5/16-18 x 3/4, Hex. Hd.
19	29421	Slide, Upper	53	60104	*Washer, Plain, 13/64 I.D. x 3/8 O.D. x 1/32
20	18716	Bracket, Table	54	38779	Spring, Guard
21	107761	*Pin, Cotter	55	29404	Head Assy., Complete Cutter
22	115120	*Nut, Hex., 1/4-20	56	29680	Head, Cutter (with Set Screw)
23	29715	Link	57	60073	*Screw, Set, 1/4-28 x 3/4, Soc. Hd.
24	18711	Clevis	58	60074	*Screw, Set, 1/4-28 x 7/8, Soc. Hd.
25	29422	Gib, Right Hand	59	156012	*Screw, Mach., No. 10-32 x 1/2, Flat Rec. Hd.
26	29419	Slide, Lower	60	38778	Wedge
27	29423	Gib, Left Hand	61	38777	†Blade, Cutter 4-1/8" Long (Thin Type)
28	29729	Plate, Tie	62	67002	Table, Front
29	60099	*Bolt, No. 10-24 x 5/8, Hex. Hd., Spin Lock	63	29660	Bearing Block and Cover
30	18035-A	†Pulley (with Set Screw)	64	118774	*Washer, Flat, 5/16
31	29637	Spacer	Not Shown	67003	Instruction Sheet and Parts List
32	38776	Washer, Fibre			
33	29225	Base			
34	29615	Screw, Elevating			

\*Standard hardware items — May be purchased locally.

†Stock Item — may be secured through the Hardware Department of most Sears or Simpson-Sears Retail Stores or Mail Order Houses.