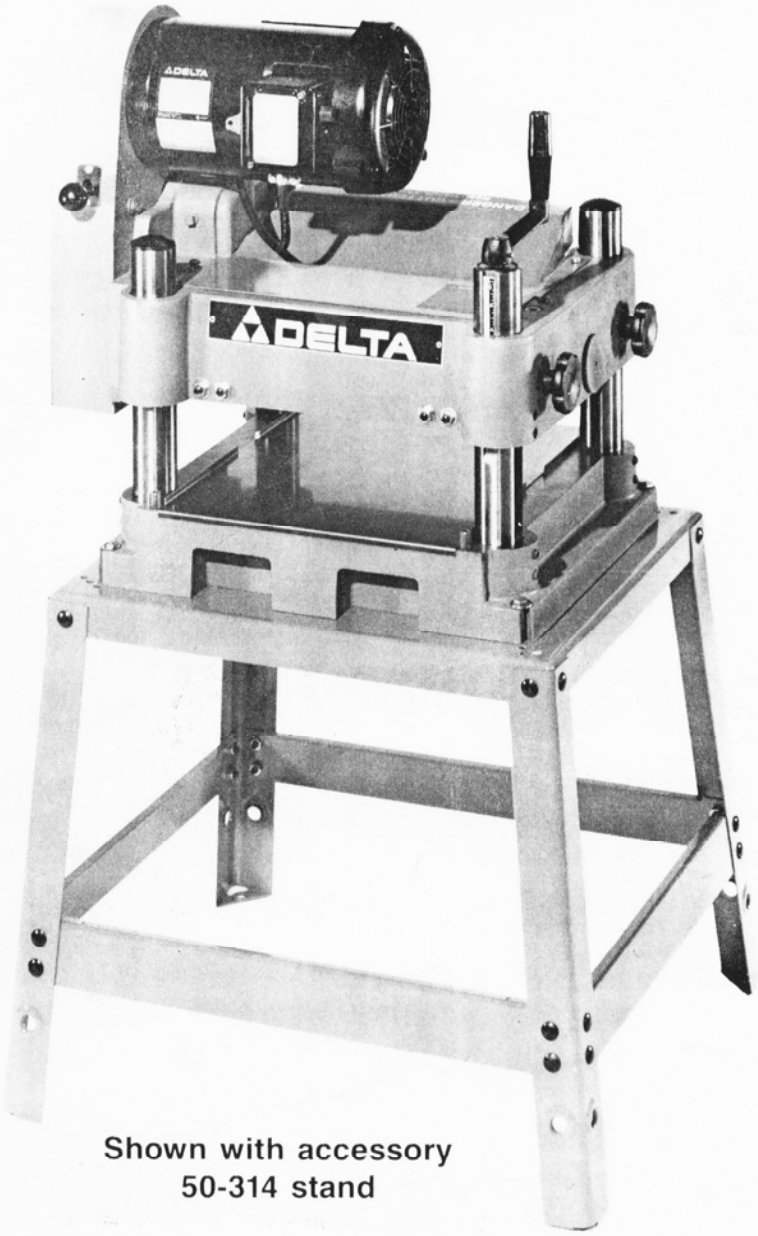
DC-33
13″ x 5.9″ Planer
(Model 22-660, 22-661 and 22-671)

INSTRUCTION MANUAL



Shown with accessory
50-314 stand

DATED 4-20-91

PART NO. 1340272

DELTA

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SAFETY RULES

As with all machinery there are certain hazards involved with operation and use of the machine. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result.

This machine was designed for certain applications only. Delta Machinery strongly recommends that this machine NOT be modified and/or used for any application other than for which it was designed. If you have any questions relative to its application DO NOT use the machine until you have written Delta Machinery and we have advised you.

DELTA INTERNATIONAL MACHINERY CORP.
MANAGER OF TECHNICAL SERVICES
246 ALPHA DRIVE
PITTSBURGH, PENNSYLVANIA 15238
(IN CANADA: 644 IMPERIAL ROAD, GUELPH, ONTARIO N1H 6M7)

WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY

1. FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING THE TOOL. Learn the tool's application and limitations as well as the specific hazards peculiar to it.

2. KEEP GUARDS IN PLACE and in working order.

3. ALWAYS WEAR EYE PROTECTION.

4. GROUND ALL TOOLS. If tool is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle. If an adapter is used to accommodate a two-prong receptacle, the adapter lug must be attached to a known ground. Never remove the third prong.

5. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it "on."

6. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.

7. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well-lighted.

8. KEEP CHILDREN AND VISITORS AWAY. All children and visitors should be kept a safe distance from work area.

9. MAKE WORKSHOP CHILDPROOF - with padlocks, master switches, or by removing starter keys.

10. DON'T FORCE TOOL. It will do the job better and be safer at the rate for which it was designed.

11. USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed.

12. WEAR PROPER APPAREL. No loose clothing, gloves, neckties, rings, bracelets, or other jewelry to get caught in moving parts. Nonslip foot wear is recommended. Wear protective hair covering to contain long hair.

13. ALWAYS USE SAFETY GLASSES. Wear safety glasses (must comply with ANSI Z87.1). Everyday eyeglasses only have impact resistant lenses; they are not safety glasses. Also use face or dust mask if cutting operation is dusty.

14. SECURE WORK. Use clamps or a vise to hold work when practical. It's safer than using your hand and frees both hands to operate tool.

15. DON'T OVERREACH. Keep proper footing and balance at all times.

16. MAINTAIN TOOLS IN TOP CONDITION. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

17. DISCONNECT TOOLS before servicing and when changing accessories such as blades, bits, cutters, etc.

18. USE RECOMMENDED ACCESSORIES. The use of improper accessories may cause hazards.

19. AVOID ACCIDENTAL STARTING. Make sure switch is in "OFF" position before plugging in power cord.

20. NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.

21. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure 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.

22. DIRECTION OF FEED. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

23. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop.

24. DRUGS, ALCOHOL, MEDICATION. Do not operate tool while under the influence of drug, alcohol or any medication.

25. MAKE SURE TOOL IS DISCONNECTED FROM POWER SUPPLY while motor is being mounted, connected or reconnected.

26. WARNING: The dust generated by certain woods and wood products can be injurious to your health. Always operate machinery in well ventilated areas and provide for proper dust removal. Use wood dust collection systems whenever possible.

ADDITIONAL SAFETY RULES FOR PLANERS

1. **WARNING:** Do not operate your machine until it is completely assembled and installed according to the instructions.

2. **IF YOU ARE NOT** thoroughly familiar with the operation of Planers, obtain advice from your supervisor, instructor or other qualified person.

3. **MAKE SURE** wiring codes and recommended electrical connection instructions are followed and that the machine is properly grounded.

4. **MAKE** all adjustments with the power off.

5. **KEEP** cutterhead sharp and free of all rust and pitch.

6. **CHECK** material for loose knots, nails and other defects.

7. **REMOVE** shavings only with the power off.

8. **KEEP HANDS** away from the top surface of the board near the feed rolls.

9. **WHEN PLANING** bowed stock, always turn the concave side of the stock toward the table and cut with the grain.

10. **PROVIDE** adequate support to the rear of the table for long workpieces.

11. **ALWAYS** turn the machine "OFF" and disconnect the cord from the power source before installing or removing knives.

12. **DISCONNECT** machine from the power source when making repairs.

13. **NEVER** leave the machine work area when the power is "ON" or before the machine has come to a complete stop.

14. **BEFORE** leaving the machine, make sure the work area is clean.

UNPACKING

Remove the crate from around the machine.

If you purchased the three phase machine, your planer is shipped complete with motor, pulleys and belts assembled to the machine.

If you purchased the single phase machine, the belt guard, motor, gear box pulley, motor pulley and belts are not assembled to the machine. The motor for the single phase machine is shipped in a separate carton.

CLEANING

Remove the protective coating from the infeed roll, cutterhead and all loose items packed with the machine. This coating may be removed with a soft cloth moistened with kerosene (do not use acetone, gasoline, or lacquer thinner for this purpose). **CARE MUST BE TAKEN WHEN CLEANING THE CUTTERHEAD AS THE KNIVES ARE IN THE CUTTERHEAD AND THESE KNIVES ARE VERY SHARP.**

ASSEMBLY INSTRUCTIONS

ASSEMBLING ACCESSORY 50-314 STAND

If you purchased the accessory 50-314 stand for use with your planer, assemble the stand as follows:

1. Assemble the stand, as shown in Fig. 2, using the 24 carriage bolts, 8 flat washers and 24 hex nuts. **NOTE:** When fastening the legs (A) to the shelf, use 8 carriage bolts (B), 8 flat washers and hex nuts. When fastening the legs (A) to the four tie bars (C), use 16 carriage bolts (D) and 16 hex nuts. Do not completely tighten the stand hardware at this time.

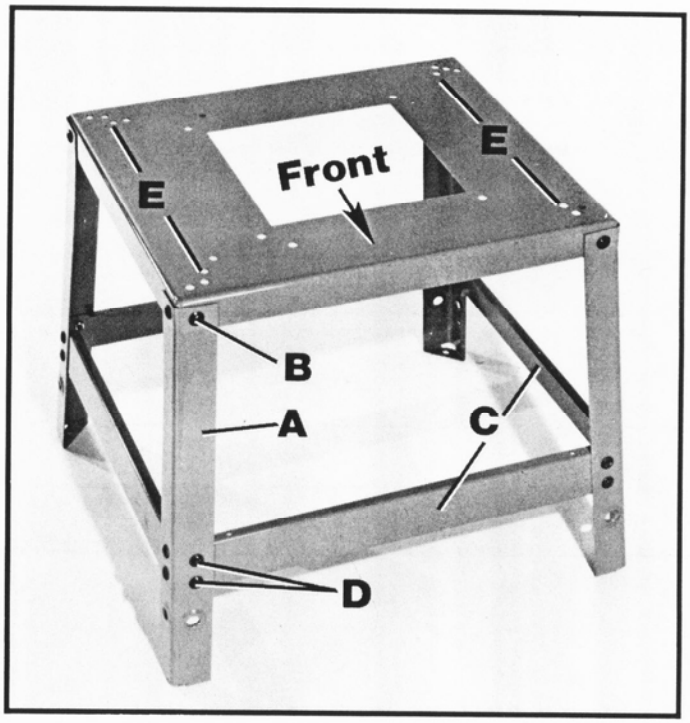

Fig. 2

ASSEMBLING PLANER TO ACCESSORY 50-314 STAND

1. The four holes stamped and indicated as (E) Fig. 2, on the shelf are the holes which are used for mounting the planer to the stand. Fig. 2, also indicates the front of the stand.

2. Position the planer (A) Fig. 3, on the stand with the front of the planer positioned on the end of the stand indicated as "FRONT" as shown in Fig. 2. Line up the holes on the bottom of the planer with the four holes (E) Fig. 2, in the stand and fasten with the four 2-inch hex head screws, three of which are shown at (B) Fig. 3, eight flat washers and four hex nuts. **NOTE:** Fig. 3 illustrates the single phase planer on the stand. This procedure is the same for the three phase machine.

3. Push down on the top of planer so the legs of stand adjust to the surface of the floor and tighten all stand hardware.

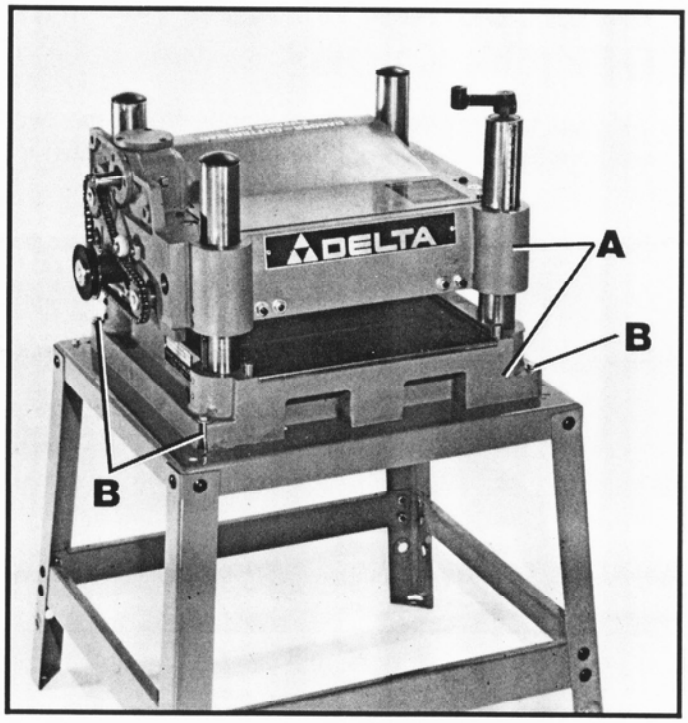

Fig. 3

ASSEMBLING HEAD RAISING AND LOWERING HANDLE

1. Using a screwdriver (A), assemble the head raising and lowering handle (B) to the handle bracket (C), as shown in Fig. 4.

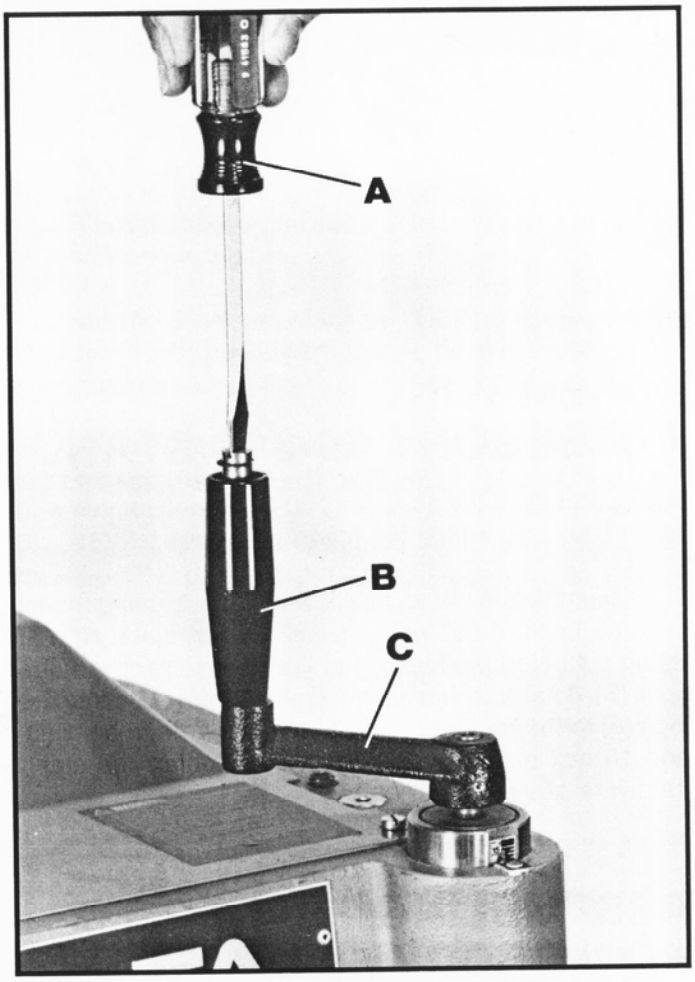

Fig. 4

ASSEMBLING HEAD LOCKING KNOBS

1. Thread the two head locking knobs (A) to the two threaded rods on the side of the machine, as shown in Fig. 5.

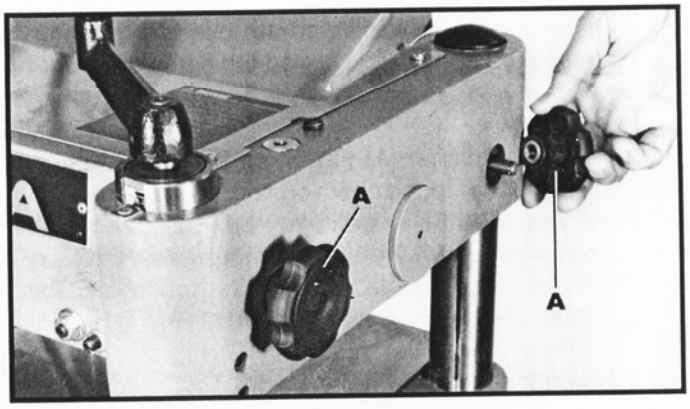

Fig. 5

ASSEMBLING BELT GUARD

1. Assemble the belt guard (A) to the side of the machine using the two bolts and washers (B), as shown in Fig. 6.

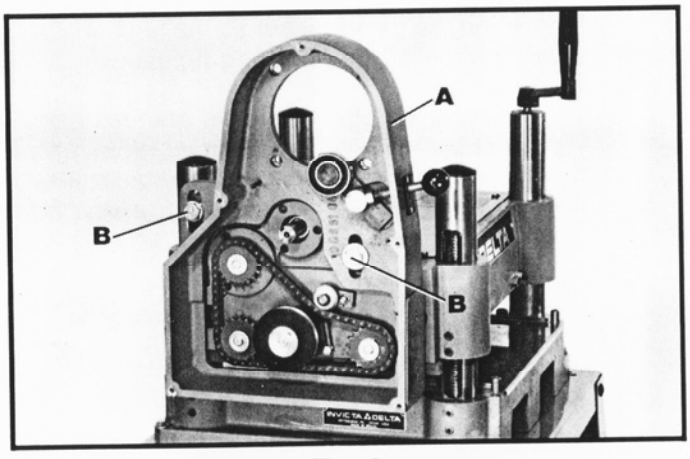

Fig. 6

ASSEMBLING MOTOR TO BELT GUARD

1. Hold the motor (A) Fig. 7, in position, as shown, line up the four holes in the guard with the four tapped holes in the motor end bracket and fasten the motor in place using the four allen head screws, three of which are shown at (B) Fig. 7.

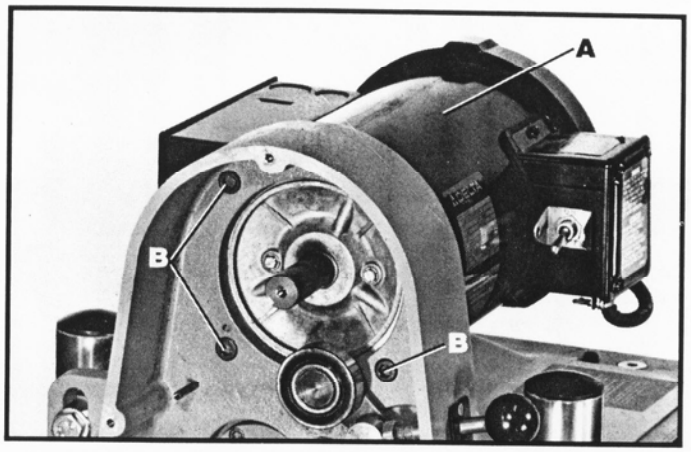

Fig. 7

ASSEMBLING MOTOR PULLEY AND GEAR BOX BELT

1. Place gear box belt (A) Fig. 10, on the small groove of the motor pulley (B) and assemble motor pulley (B) to the motor shaft (C).

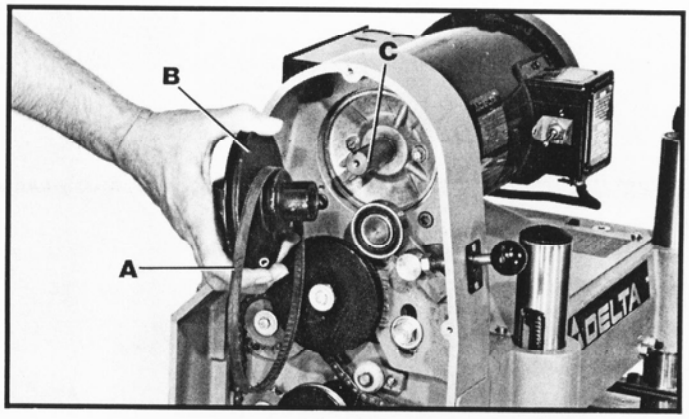

Fig. 10

2. Line up keyway in motor pulley with keyway in motor shaft and insert key. Fasten motor pulley (B) Fig. 11, to the motor shaft with washer (D) and screw (E).

3. Make certain belt (A) Fig. 11, is on the inside groove of motor pulley (B) and groove of gear pulley (F). **IMPORTANT: POSITION THE BELT (A) FIG. 11, SO THAT ITS OUTER SURFACE IS ON THE INSIDE OF ROLL PIN (G) AS SHOWN.**

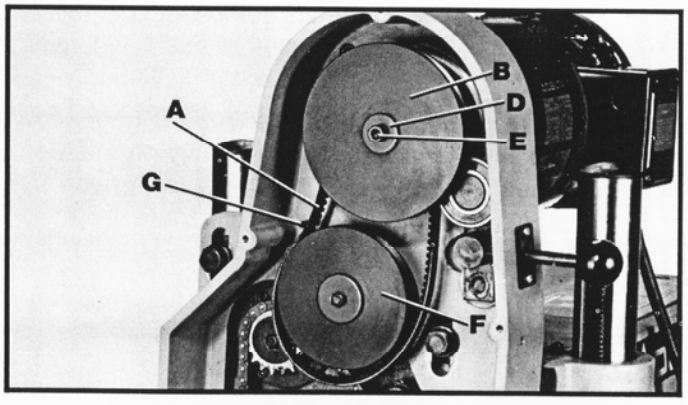

Fig. 11

ASSEMBLING CUTTERHEAD BELT

1. Assemble cutterhead belt (A) Fig. 12, to the outside groove of the motor pulley (B) and groove of cutterhead pulley (C), as shown.

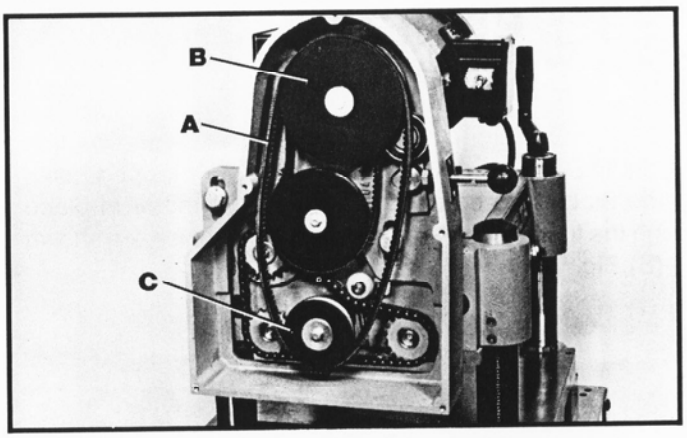

Fig. 12

ADJUSTING CUTTERHEAD BELT TENSION

1. Raise or lower the head assembly (A) Fig. 13, until you can place a block of wood, approximately 1″x6″x12″ (B), between the bottom of belt guard (C) and top shelf of stand (D), as shown.

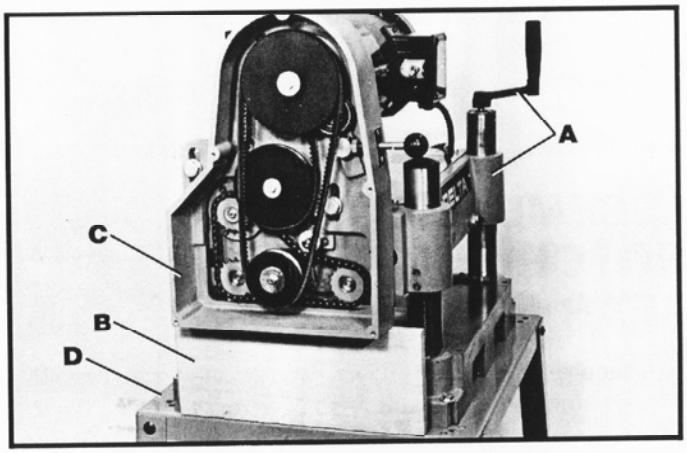

Fig. 13

2. Loosen two bolts (E) Fig. 13A, that fasten the belt guard to the machine, lift up the feed roll engagement lever (F), and simultaneously push in firmly on the feed roll engagement lever (F) and lower the cutterhead by turning handle (G) counterclockwise until there is 3/8″ to 1/2″ space between bearing (H) Fig. 13B, and gear box drive pulley (J). Then tighten two bolts (E), Fig. 13A.

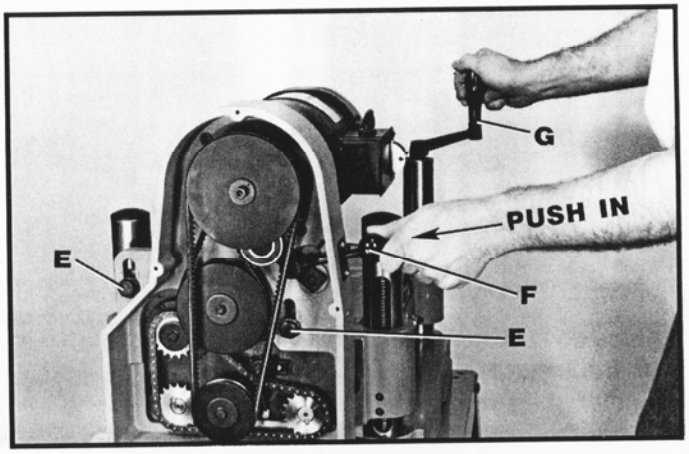

Fig. 13A

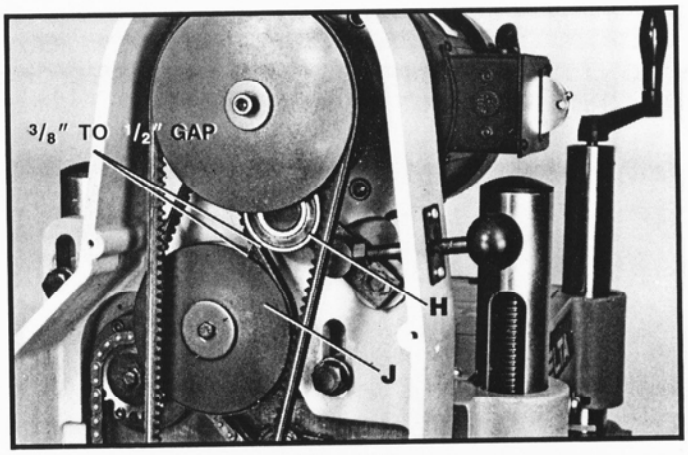

Fig. 13B

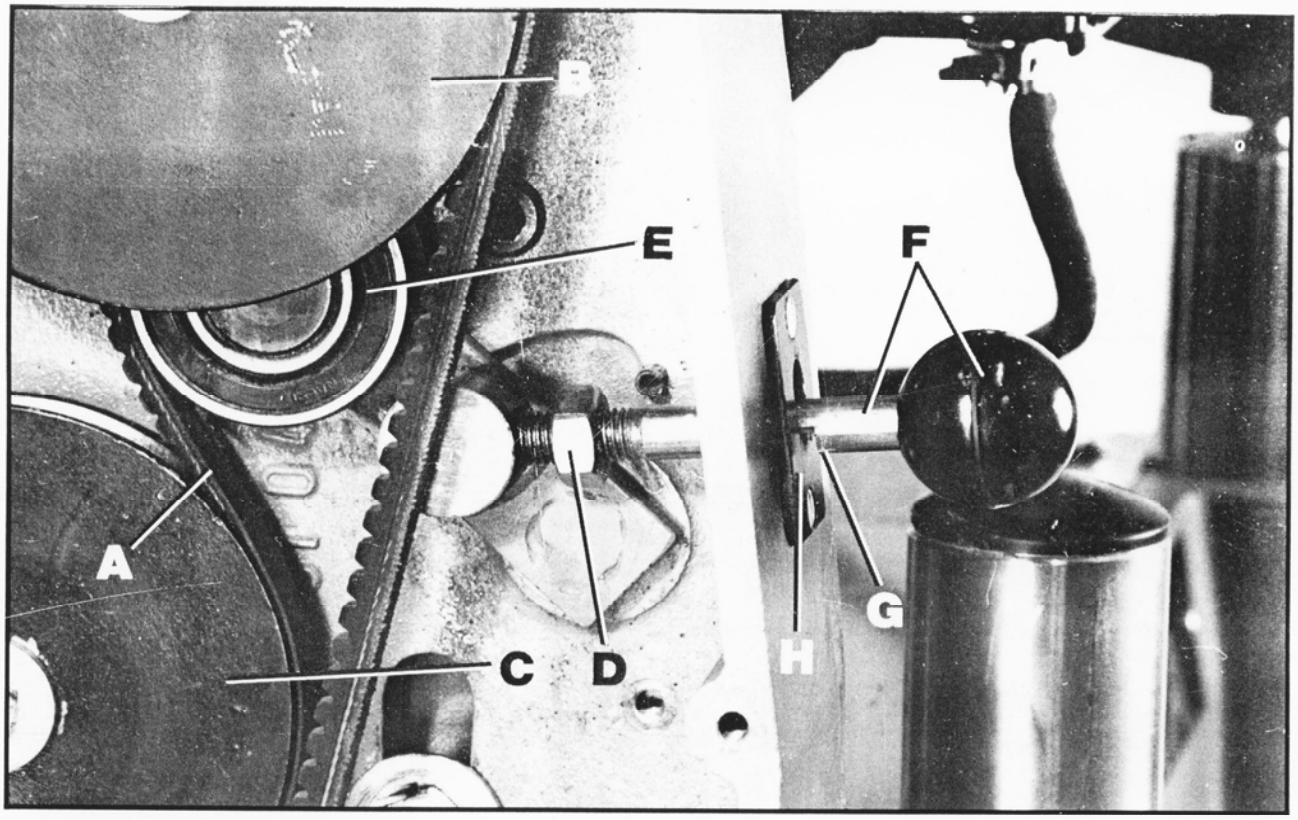

Fig. 14

ADJUSTING GEAR BOX BELT TENSION

1. Make certain belt (A) Fig. 14, is on the inside groove of motor pulley (B) and groove of gear box pulley (C).

2. Loosen nut (D) Fig. 14.

3. Make certain bearing (E) Fig. 14, is engaged with the outside surface of belt (A) and push in feed roll engagement lever (F) until notch (G) on lever is engaged with plate (H), as shown. **IMPORTANT:** The object is to remove all slack from gear box belt (A). Only "very light tension" is required on belt (A). To increase belt tension, turn lever (F) counterclockwise. To decrease belt tension, turn lever (F) clockwise making certain notch (G) remains on the bottom of lever (F) so it can engage with plate (H). Then tighten nut (D).

4. Minor adjustment may be necessary after the machine is operational.

ASSEMBLING SWITCH (THREE PHASE MACHINE ONLY)

1. Assemble switch box (A) Fig. 14A, to front of belt guard using the two 1-1/4″ long screws (B), lockwashers, and nuts supplied with the planer.

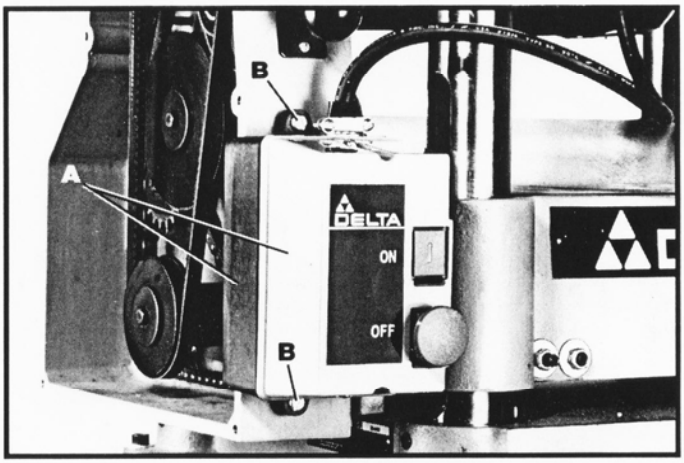

Fig. 14A

ASSEMBLING BELT GUARD COVER

Assemble the belt guard cover (A) Fig. 15, to the side of the belt guard using the five screws (B).

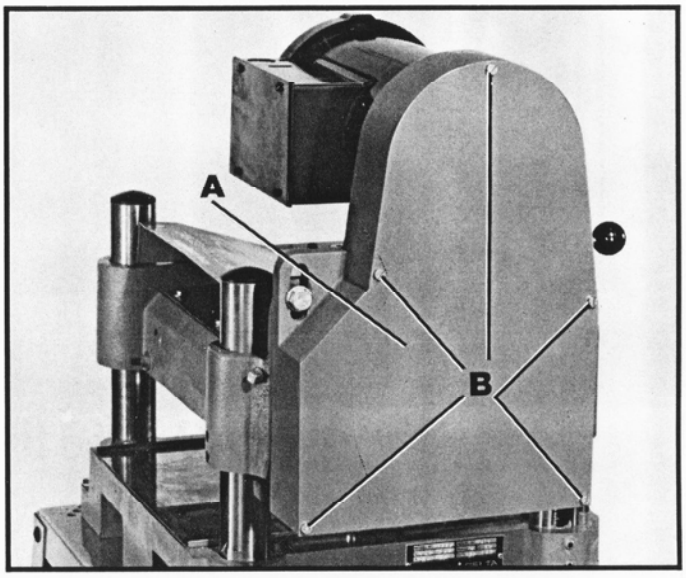

Fig. 15

ELECTRICAL CONNECTIONS

Before connecting your machine to an electrical power system, make sure the motor rating agrees with the electrical system it is to be connected to and proceed as follows for single or three phase machines:

SINGLE PHASE MACHINE

The motor supplied with the single phase machine is wired for 230 Volts, Single Phase Operation and is supplied with a power cord equipped with a plug that has two flat, current-carrying prongs in tandem and one round or "U" shaped longer ground prong, as shown in Fig. 16. This plug is used only with the proper mating 3-conductor grounding type receptacle, as shown in Fig. 16.

When the three-prong plug is plugged into a grounded 3-conductor receptacle, as shown in Fig. 16 the long ground prong on the plug contacts first so the machine is properly grounded before electricity reaches it.

WARNING: MAKE CERTAIN THE RECEPTACLE IS PROPERLY GROUNDED. IF YOU ARE NOT SURE HAVE A CERTIFIED ELECTRICIAN CHECK THE RECEPTACLE.

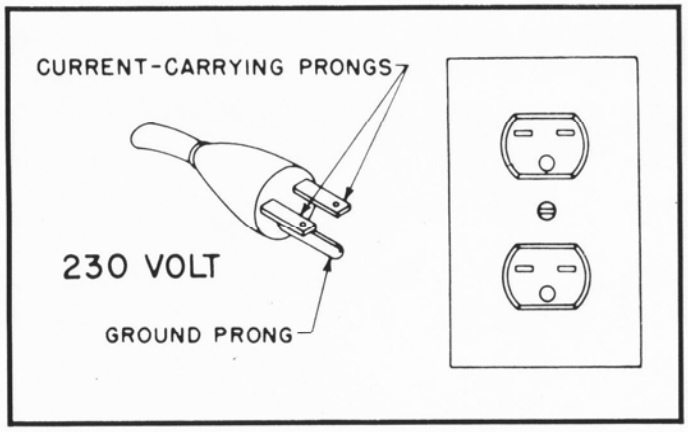

Fig. 16

THREE PHASE MACHINE

The motor supplied with the three phase machine is designed to operate at 200/230 volt, three phase operation. To connect power to your machine, proceed as follows:

1. Remove switch cover.

2. Knock out box connector opening on top of switch box and assemble cable clamp (A) Fig. 17, to opening. **NOTE:** Cable clamp is not supplied with your machine.

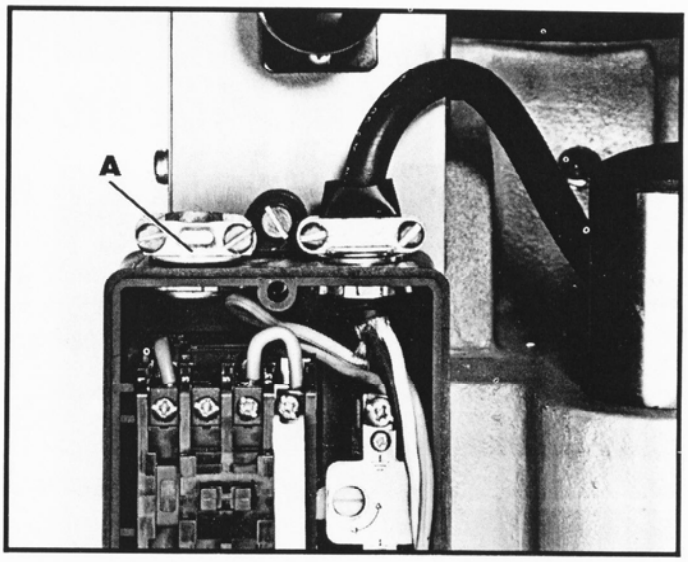

Fig. 17

3. **WARNING: MAKE CERTAIN POWER LINE (B) FIG. 18, IS DISCONNECTED FROM THE POWER SOURCE** and insert power line (B) through cable clamp (A) on top of switch box. Connect the three power lines to terminals (C) and the green ground wire to terminal (D). **IMPORTANT: IF AFTER THE MACHINE IS IN OPERATION THE CUTTERHEAD REVOLVES IN THE WRONG ROTATION, SIMPLY INTERCHANGE ANY TWO OF THE THREE POWER LINES THAT ARE CONNECTED TO TERMINALS (C) FIG. 18.**

4. The overload setting is set at the factory at 8.0 for 200/230 volt operation. Verify that the overload setting is at 8.0 and replace the switch cover.

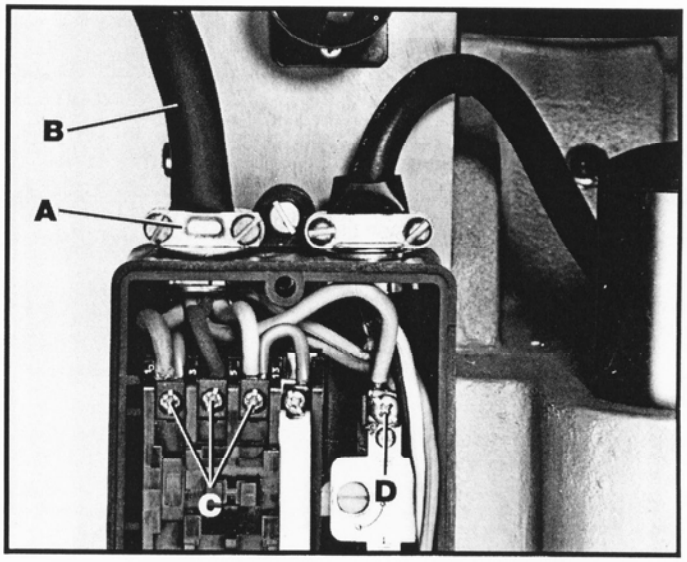

Fig. 18

5. Fig. 19, illustrates the switch cover (E) replaced.

6. Remove screw (F) Fig. 19, that fastens the top cover plate (G) to the head. Assemble cable clamp (H) to cable and using screw (F) assemble cable to top cover plate (G), as shown.

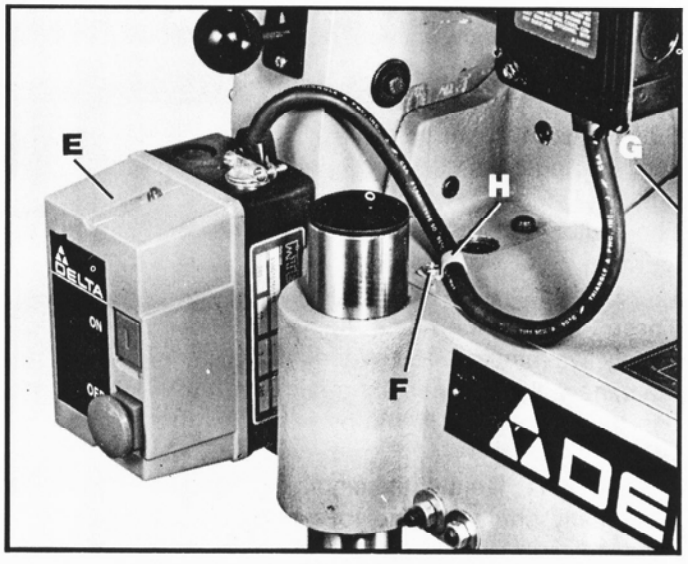

Fig. 19

OPERATING CONTROLS AND ADJUSTMENTS

STARTING AND STOPPING MACHINE

Single Phase Machine

On the single phase machine the switch (A) Fig. 21, is located on the motor junction box. To turn the machine "ON" move the switch (A) to the up position and to turn the machine "OFF" move the switch to the down position.

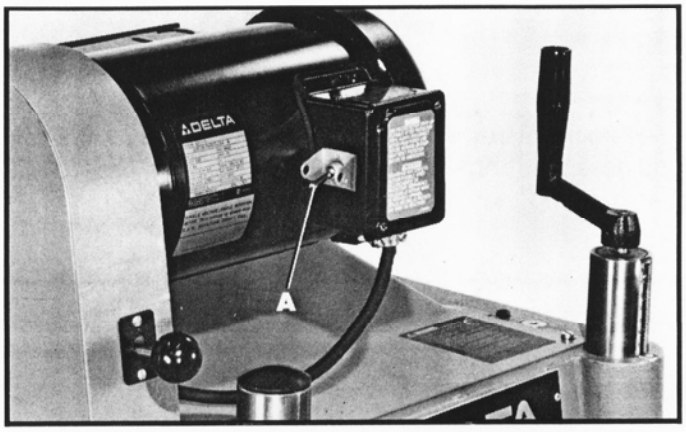

Fig. 21

Three Phase Machine

On the three phase machine the switch is located on the front of the belt guard, as shown in Fig. 22. To turn the machine "ON" press the start button (A) and to turn the machine "OFF" press the stop button (B).

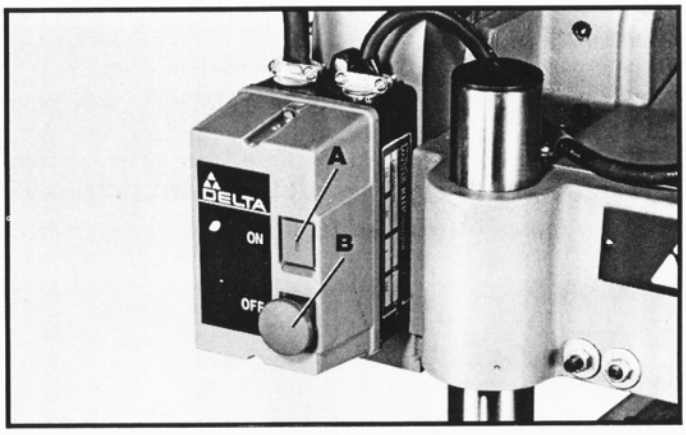

Fig. 22

OVERLOAD PROTECTION

Your planer is provided with overload protection which will shut off the motor if the planer is overloaded or if line voltage falls below safe levels. If the motor shuts off due to overloading or low voltage, proceed as follows for single and three phase machines:

Single Phase Machines - Turn off the switch, let the motor cool for approximately five minutes and push the reset button (A) Fig. 23, which will reset the overload device. The motor can then be turned on again in the usual manner.

Three Phase Machines - Let the motor cool for approximately five minutes. The overload block supplied with the machine will automatically reset itself and the machine can then be started again by pushing the start button.

IMPORTANT: If either the single or three phase machine continually shuts off due to overloading, the cause of overloading must be corrected. If this happens, it is recommended you obtain advice from a qualified electrician.

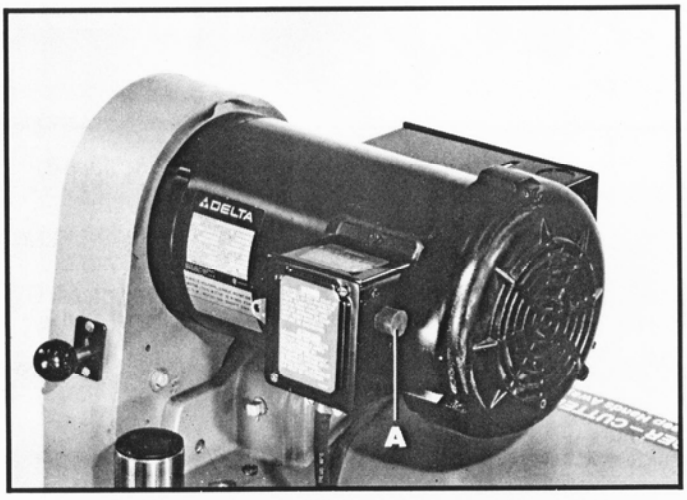

Fig. 23

RAISING AND LOWERING HEAD ASSEMBLY

The head assembly (A) Fig. 24, contains the cutterhead, feed rolls and chipbreaker. Raising and lowering the head assembly (A) controls the depth of cut on your planer. To raise or lower the head assembly simply loosen the two head locking knobs (B) and turn the raising and lowering handle (C). After the desired depth of cut is obtained, tighten lock knobs (B). A combination english/metric scale (D) is conveniently located on the right front column for easy reading.

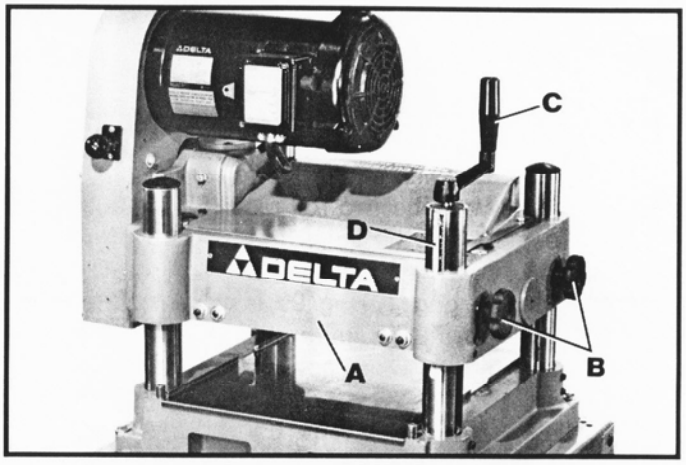

Fig. 24

FEED ROLL ENGAGEMENT CONTROL

Your machine is equipped with a spiral serrated infeed roll and a polyurethane outfeed roll. When the feed rolls are engaged, they turn and feed the stock through the planer. The feed rolls slow automatically when the machine is under heavy load giving you the best planing under all conditions. To engage the feed rolls, push in and engage lever (A) Fig. 25. To disengage the feed rolls, lift up and pull out lever (A).

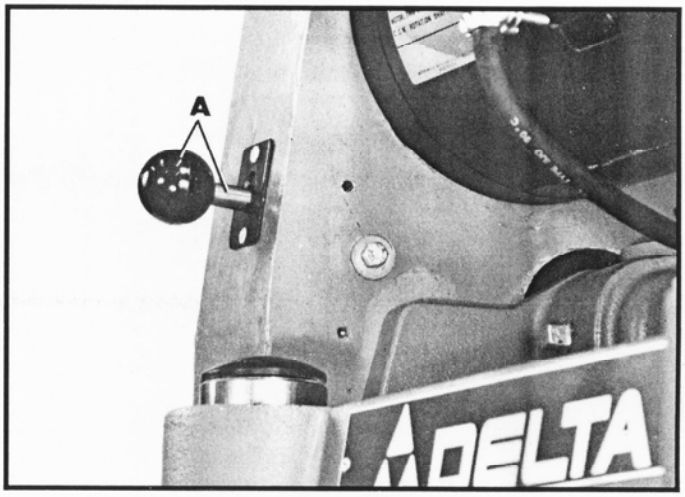

Fig. 25

CHECKING, ADJUSTING AND REPLACING KNIVES

When checking, adjusting or replacing knives, proceed as follows:

1. **DISCONNECT THE MACHINE FROM THE POWER SOURCE.**

2. Remove the four screws, three of which are shown at (A) Fig. 26, and remove the top cover plate (B).

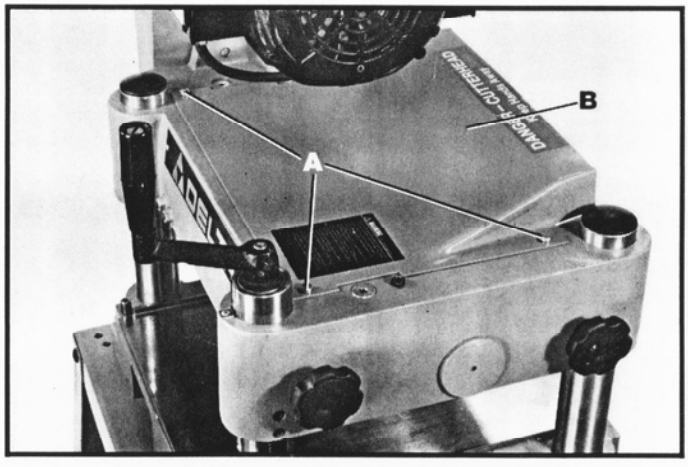

Fig. 26

3. Remove the three screws (C) Fig. 27, and remove the chip deflector (D).

4. To check and adjust knives, proceed as follows:

A. Place the knife setting gage (E) Fig. 28, on the cutterhead with the two roll pins (F) contacting the back edge (G) of the cutterhead slot.

B. When the gage (E) Fig. 29, is placed on the cutterhead, as shown, the knife should just contact the bottom of the gage at each end of the gage.

C. If any of the knives require an adjustment, slightly loosen the knife locking bar in each of the three knives by turning the locking screws (H) Fig. 29, into the locking bar just enough to relieve stress in the cutterhead.

D. To adjust the knife that must be reset, loosen all five locking screws (H) Fig. 29, by turning them into the locking bar. Then using wrench (J) turn allen screw to raise or lower the knife on each end of the cutterhead until the cutting edge of the knife just touches the gage. Then snug up the knife locking bar by lightly backing out the five locking screws (H) against the knife slot. **IMPORTANT: AT THIS TIME, ONLY TIGHTEN THE KNIFE INTO THE SLOT ENOUGH TO HOLD IT IN POSITION.**

E. If additional knives must be reset, repeat **STEP D.**

F. After all three knives are set, back out and tighten the five locking screws (H) Fig. 29, against the slot, starting with the end screws first, then the center screws until the knife is securely held in the cutterhead. Tighten the remaining two knives in the same manner.

5. If the knives are removed for sharpening, care must be exercised in replacing and resetting them, as follows:

A. Remove the three knives, locking bar and locking screws from the cutterhead.

B. Thoroughly clean the knife slots, knife bars and screws. Check the screws. If the threads appear worn or stripped or if the heads are becoming rounded, replace them.

C. Insert knives, knife locking bars and screws into all three slots in the cutterhead. Back out the locking screws (H) Fig. 29, just enough to hold all three knives in the cutterhead.

D. Adjust all three knives as explained under **STEP 4.**

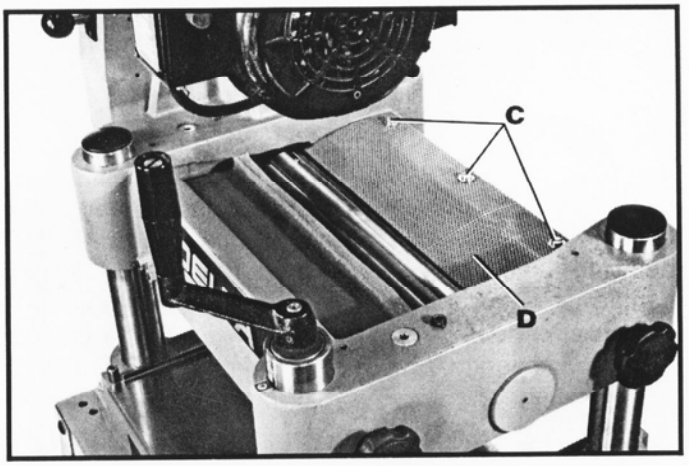

Fig. 27

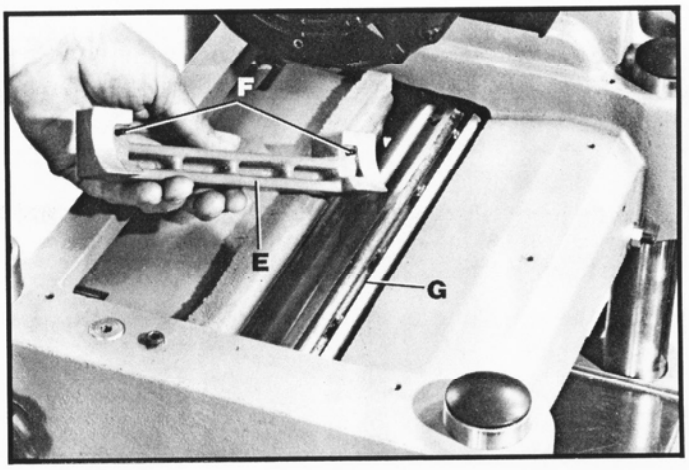

Fig. 28

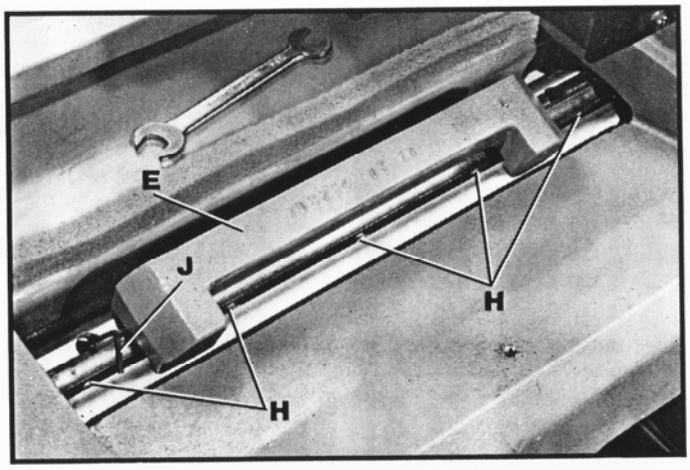

Fig. 29

CONSTRUCTING GAGE BLOCK

In order to check and adjust the chipbreaker, infeed and outfeed roll you will need a homemade gage block made of hardwood. This gage block can be easily constructed by following the dimensions shown in Fig. 30.

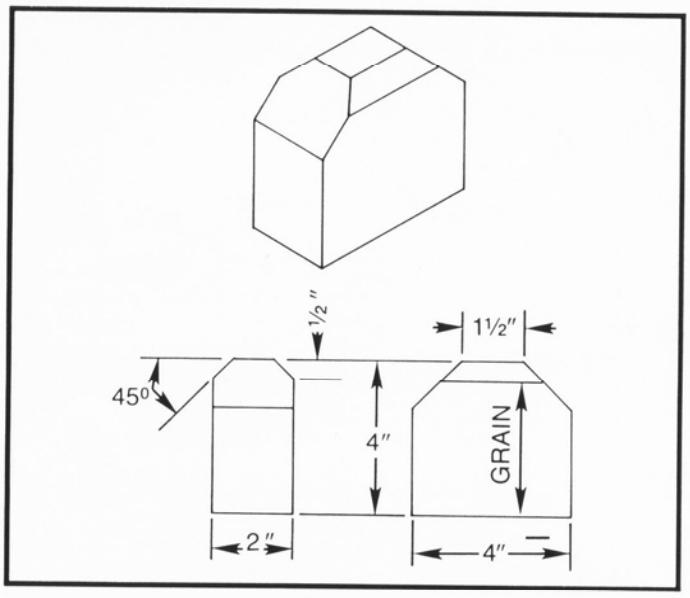

Fig. 30

ADJUSTING HEIGHT OF INFEED ROLL

The infeed roll is adjusted at the factory at 0.040" below the cutting circle. To check and adjust the height of the infeed roll, proceed as follows:

1. **DISCONNECT MACHINE FROM THE POWER SOURCE.**

2. Make sure the knives are adjusted properly as explained under **CHECKING, ADJUSTING AND REPLACING KNIVES.**

3. Place the gage block (A) Fig. 31, on the table directly underneath the cutterhead, as shown. Using a 0.040" feeler gage (B) placed on top of the gage block, raise or lower the head assembly until one of the knives just touches the feeler gage when the knife is at its lowest point. Then tighten the head locking knobs.

4. Move the gage block (A) Fig. 32, minus the feeler gage, under one end of the infeed roll (C). The bottom of the infeed roll (C) should just touch the top of the gage block (A), as shown.

5. If the height of the infeed roll must be adjusted, loosen nut (D) Fig. 33, and turn adjusting screw (E) until that end of the infeed roll just touches the top of the gage block. Then tighten nut (D).

6. Repeat this adjustment with the gage block on the opposite end of the infeed roll and if an adjustment is necessary loosen nut (F) Fig. 33, and turn adjusting screw (G).

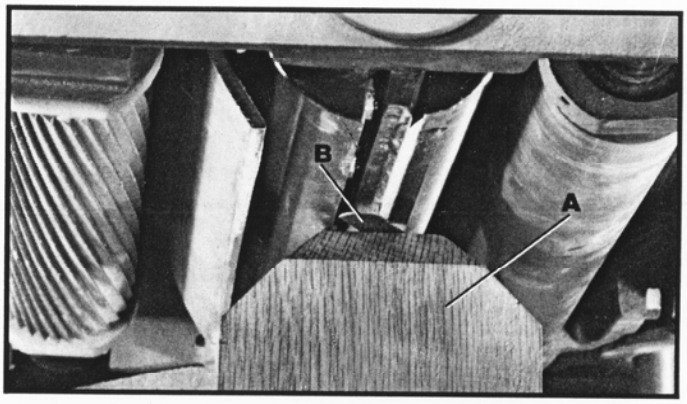

Fig. 31

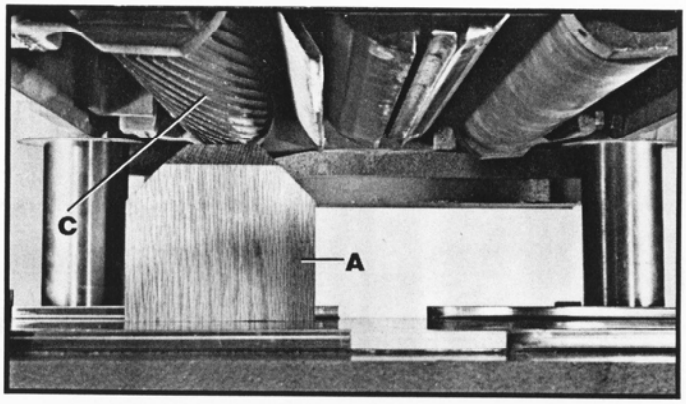

Fig. 32

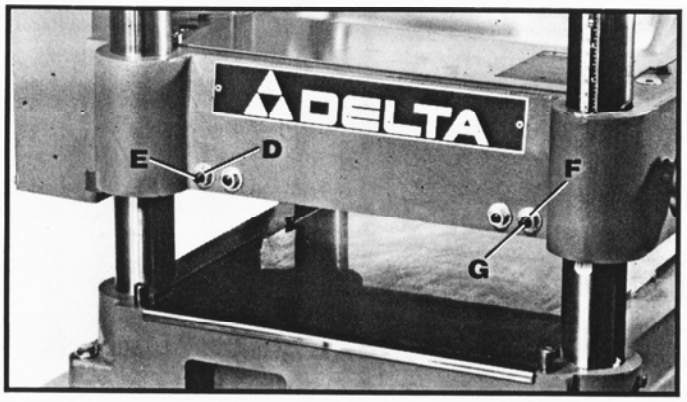

Fig. 33

ADJUSTING SPRING TENSION OF INFEED ROLL

The infeed roll is under spring tension and this tension must be sufficient to feed the stock uniformly through the planer without slipping but should not be too tight that it causes damage to the board.

To adjust spring tension of the infeed roll turn screws (A) Fig. 34. Turning screws (A) clockwise will increase and counterclockwise will decrease spring tension.

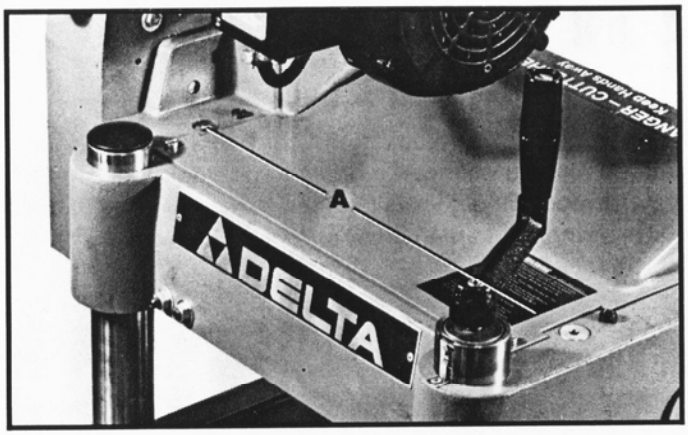

Fig. 34

ADJUSTING HEIGHT OF CHIPBREAKER

The chipbreaker extends down around the front of the cutterhead and raises as stock is fed through the planer. The chipbreaker "breaks or curls" the chips as they leave the cutterhead and the bottom edge of the chipbreaker helps hold the stock flat down on the table during the planing operation. The bottom of the chipbreaker must be parallel to the knives and set 0.020" below the cutting circle. To check and adjust, proceed as follows:

1. **DISCONNECT THE MACHINE FROM THE POWER SOURCE.**

2. Make certain the knives are adjusted properly as explained under **CHECKING, ADJUSTING AND REPLACING KNIVES.**

3. Place the gage block (A) Fig. 35, on the table directly under the cutterhead as shown. Using a 0.020" feeler gage (B) placed on top of the gage block, raise or lower the head assembly until one of the knives just touches the feeler gage when the knife is at its lowest point. Then lock the head assembly in this position.

4. Place the gage block (A) Fig. 36, minus the feeler gage, under one end of the chipbreaker (C), as shown. The bottom of the chipbreaker (C) should just touch the top of the gage block, as shown.

5. If the height of the chipbreaker must be adjusted loosen nut (D) Fig. 37, and turn screw (E) until that end of the chipbreaker is properly adjusted.

6. Place the gage block on the other end of the chipbreaker and if an adjustment is necessary loosen nut (F) Fig. 37, and turn adjusting screw (G).

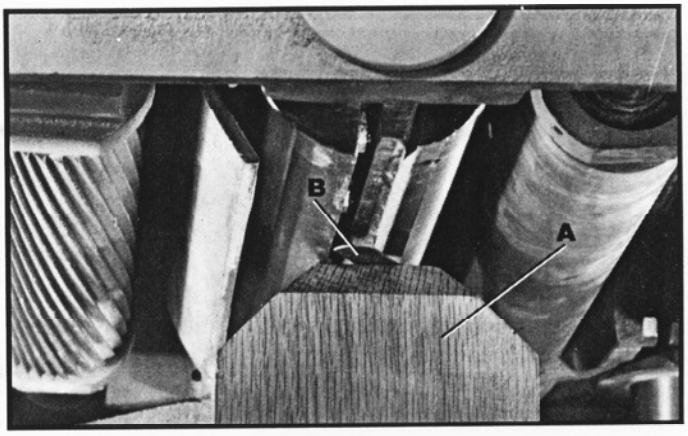

Fig. 35

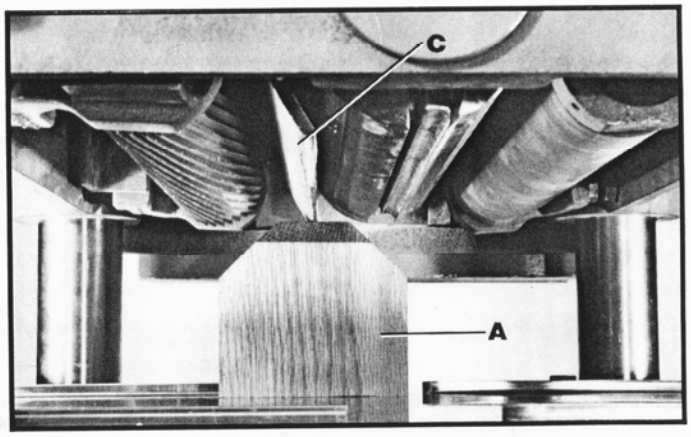

Fig. 36

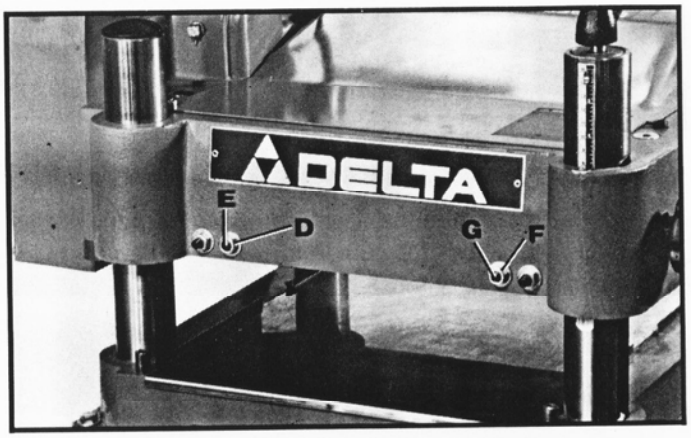

Fig. 37

ADJUSTING SPRING TENSION OF CHIPBREAKER

The chipbreaker is under spring tension and this tension must be sufficient to hold the stock down against the table during the planing operation; however, it should not be too tight that the chipbreaker prevents the planer from feeding the stock.

To adjust spring tension of the chipbreaker turn adjusting screws (A) Fig. 38. Turning screws clockwise increases and counterclockwise decreases spring tension of the chipbreaker.

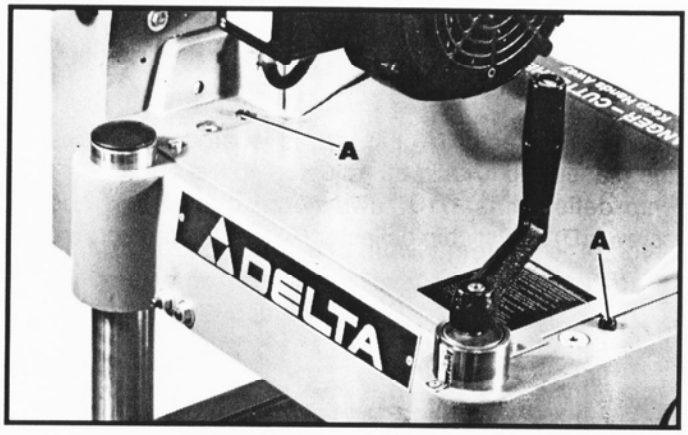

Fig. 38

ADJUSTING HEIGHT OF OUTFEED ROLL

The outfeed roll is adjusted at the factory to be **0.020″ below the cutting circle on the right side of the roll and 0.030″ below the cutting circle on the left side of the roll.** To check and adjust the height of the outfeed roll, proceed as follows:

1. **DISCONNECT MACHINE FROM THE POWER SOURCE.**

2. Make sure the knives are adjusted properly as explained under **CHECKING, ADJUSTING AND REPLACING KNIVES.**

3. Place the gage block (A) Fig. 39, on the table directly underneath the cutterhead, as shown. Depending on which end of the outfeed roll you are checking and adjusting, place either a 0.030″ or 0.020″ feeler gage (B) Fig. 39, on top of the gage block, as shown. In this case we are using a 0.030″ feeler gage as we will be checking the height of the left side of the outfeed roll. Raise or lower the head assembly until one of the knives just touches the feeler gage when the knife is at its lowest point. Then tighten the head locking knobs.

4. Move the gage block (A) Fig. 40, minus the feeler gage, under the **left end** of the outfeed roll (C), as shown. The bottom of the outfeed roll (C) should just touch the top of the gage block (A).

5. If the height of the left end of the outfeed roll must be adjusted, tighten and/or loosen nut (D) Fig. 41, and the nut located inside the casting on stud (E) until the left end of the outfeed roll is properly adjusted.

6. Repeat this adjustment procedure to check and adjust the height of the right end of the outfeed roll making sure you are using a 0.020″ feeler gage. If an adjustment to the height of the right end of the outfeed roll is necessary, tighten and/or loosen nut (F) Fig. 41, and the nut located inside the casting on stud (G).

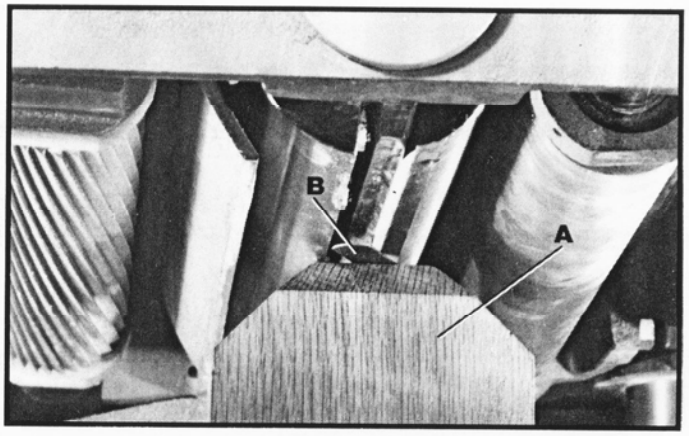

Fig. 39

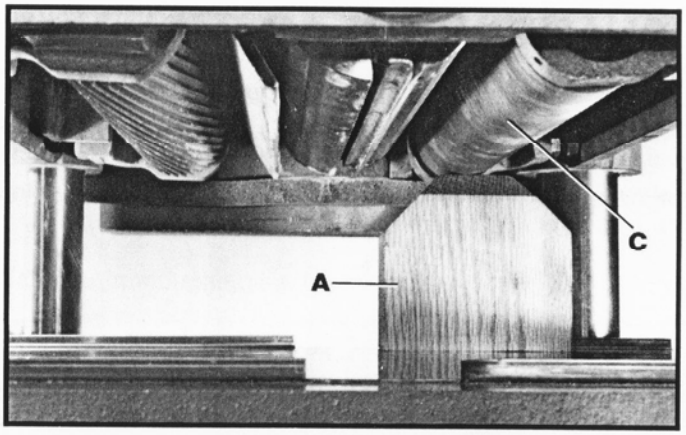

Fig. 40

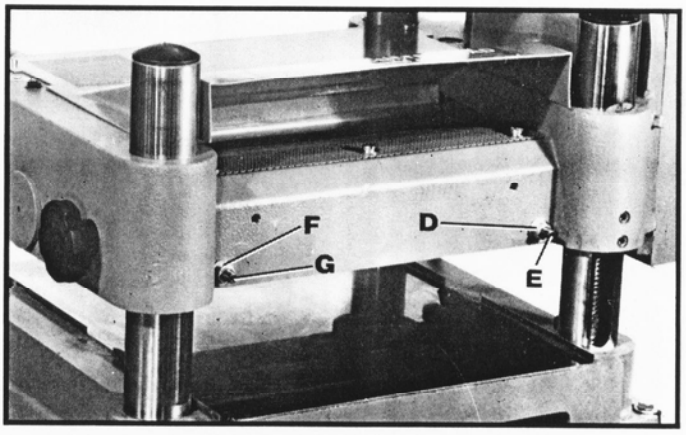

Fig. 41

ADJUSTING CHIP DEFLECTOR

The chip deflector (A) Fig. 42, is located on the rear of the planer and should be adjusted so the edge (B) of the chip deflector is 1/16″ away from the knives. Loosen screws (D) adjust chip deflector (A) and tighten screws (D).

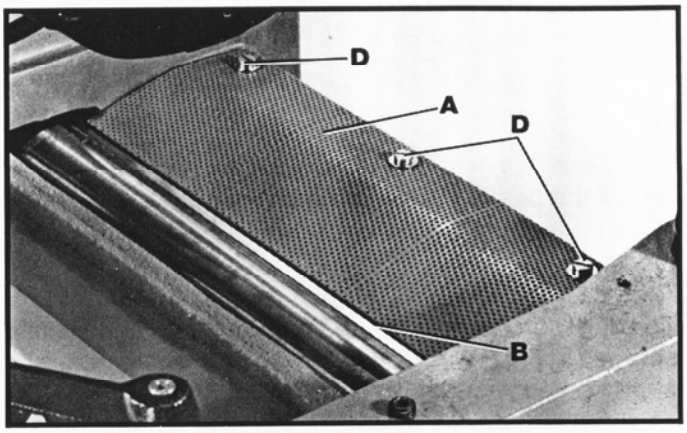

Fig. 42

MAINTENANCE

CHANGING GEAR BOX OIL

The gear box oil should be changed once a year using extreme pressure gear oil available from Delta in one pint cans under part no. 999-01-013-1210. The gear box drain plug is shown at (A) Fig. 43, and the oil fill and level plug is shown at (B) Fig. 44.

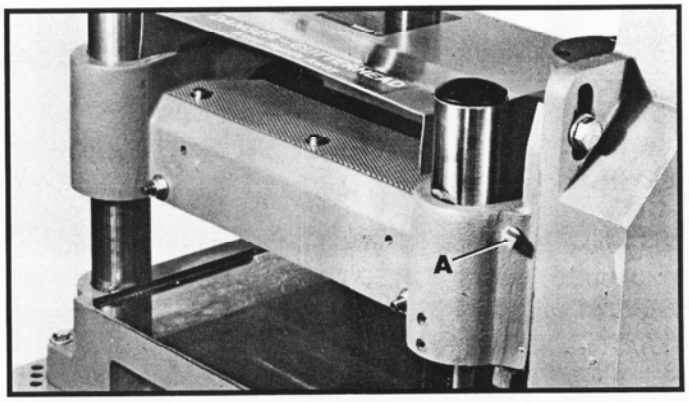

Fig. 43

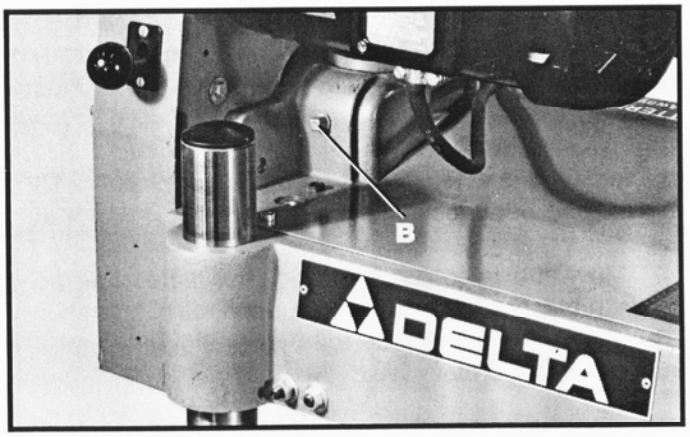

Fig. 44

ACCESSORIES

Cat. No. 22-656	**Cutterhead Knives (set of 3)**
Cat. No. 22-658	**Shaving Hood**
Cat. No. 50-314	**Stand**
Cat. No. 50-269	**Mobile Base for 50-314 Stand**

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729 Holcombe Avenue
205-479-9832

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Alaska Tool & Equip. Service
3207 Arctic Boulevard
907-562-6151

Fairbanks 99706
Fairbanks Aero Services, Inc.
Box 60590
907-479-6666

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835 East Southern Avenue #4
602-892-6163

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4036 North 13th Way
602-264-6203

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714 W. Grant Rd.
602-624-5248

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Arkansas Tool Service
804 Valley Street
501-321-9851

Little Rock 72202
Electric Tool Service
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501-374-8180

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415-827-1011

Covina 91723
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714-870-0900

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213-430-2668

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Stanislaus Electric Mtr. Wrks.
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619-422-8665

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303-892-6113

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601-264-3308

Jackson 39202
Flannigan Electric Co., Inc.
1820 S. West Street Ext.
601-354-2756

MISSOURI
Joplin 64802
Electric Motor Supply Inc.
P.O. Box 1925
2301 West 20th Street
417-623-4544

North Kansas City 64116
Porter-Cable Corporation
1141 Swift Avenue
P.O. Box 12393
816-221-2070

St.Louis 63119
Porter-Cable Corporation
7574 Watson Road
314-968-8950

Springfield 65802
Middle Earth Tool Repair, Inc.
1661 St. Louis
417-831-0954

MONTANA
Billings 59101
Allen's Electric Tool Repair
431 St. John's Avenue
406-248-3865

Black Eagle 59414
Mosch Electric Motors
2513 17th Street North
406-453-2481

Missoula 59801
City Electric
Electro Service Center Div.
101 S. Catlin Street
406-549-4115

Missoula 59801
Montana Tool Co.
1908 North Ave. West
406-721-6425

NEBRASKA
Lincoln 68504
Lincoln Tool Service Center
3535 North 40
402-464-1157

Omaha 68127
Thacker Electric
8507 I Street
402-592-9433
NAT WATS 800-678-7604

Omaha 68127
Tool Hospital
4630 So. 85 Street
492-592-5220

(continued)

Authorized Service Stations (continued)

NEVADA
Las Vegas 89103
E & M Industrial Hdwe.
3725 West Russell Rd.
702-736-6102

Las Vegas 89118
All Tools Repair
5720 S. Valley View #5
702-736-6102

Las Vegas 89109
Tool Service Inc.
3229 Industrial Road
702-734-9161

Reno 89512
Comstock Electric
425 Eureka Avenue
702-323-5982

NEW HAMPSHIRE
Nashua 03061
Hammar Industrial
175 Amherst St.
P.O. Box 1209
603-882-5161

NEW JERSEY
Somerville 08876
Butensky Services Co.
10 County Line Road, Suite 7
908-707-0912

Union 07083
Porter-Cable Corporation
945 Ball Avenue
201-964-1730

NEW MEXICO
Albuquerque 87108
J-M Tool Repair Co.
320 Florida S.E.
505-255-2304

NEW YORK
Amherst 14226
*Philipps Bros. Supply Inc.
2525 Kensington Avenue
716-839-4800

Buffalo 14210
SS Electric Repair Shop Inc.
2470 Seneca Street
716-823-1232

Flushing 11365
Porter-Cable Corporation
175-25 Horace Harding Expwy.
718-225-2040

Kingston 12401
Miron Bldg. Products, Inc.
C.P.O. Box 1598
Rt. #9W North
914-336-6000

Rochester 14608
Jackson Saw & Knife Co.
517 State Street
716-546-7485

Rochester 14609
O.G. Schwarz
430 Atlantic Avenue
716-482-9282

Southampton 11968
Richards Tool and Motor Repair
County Road 39 and
N. Main Street
516-283-5130

Syracuse 13220
Mid-State Contractors
1811 LeMoyne Avenue, Box 2189
315-455-5903

Syracuse 13210
Syracuse Industrial Sales
713 E. Fayette Street
315-478-5751

Utica 13502
McQuade and Bannigan
1300 Stark Street
315-724-7119

Vestal 13850
Cascade Electric Inc.
416 Commerce Rd.
607-729-5278

NORTH CAROLINA
Charlotte 28209
Porter-Cable Corporation
4303B South Boulevard
704-525-4410

Fayetteville 28301
Redi Supply Company
1815 Ramsey Street
919-483-1090

Foscoe 28604
Action Power Tools
Hwy. 105
704-963-7271

Greenville 27834
Redi Supply Company
1902 Chestnut Street
919-758-3200

Raleigh 27604
Specialty Tool Service
of Raleigh Inc.
2420 Atlantic Ave.
919-833-5903

Wilmington 28401
Coastal Power Tool and
Equipment Repair
1515 S. Front Street
919-762-0777

Wilmington 28405
M. F. McLean Enterprises
Rt. 6, Box 97
Old Wrightsville Road
919-343-1775

Winston Salem 27106
Piedmont Power Mach. Srv. Inc.
4305J Enterprise Drive
919-759-2022

NORTH DAKOTA
Bismark 58501
Acme Electric Motor, Inc.
1009 Basin Avenue
701-258-1267

Fargo 58103
Acme Electric Motor, Inc.
3401 Interstate Blvd.
701-235-8060

Grand Forks 58201
Acme Electric Motor, Inc.
1705 13th Avenue North
701-746-6481

Minot 58701
Acme Electric Motor, Inc.
525 20th Avenue S.E.
701-839-2263

OHIO
Barberton 44203
Viking Akron Tool & Supply Co.
2915 New Park Drive
1-800-362-0585
216-753-1063

Cincinnati 45245
Pro Tool Service
747 Ohio Pike
513-753-4349

Cincinnati 45215
Pro Tool Service Inc.
1125 Glendale-Milford Road
513-772-1490

Columbus 43214
Porter-Cable Corporation
4560 Indianola Avenue
614-263-0929

Alpha (Dayton) 45301
Authorized Tool Service Co.
676 Orchard Lane
P.O. Box 5
513-429-5593

North Canton 44720
N. Canton Repair Shop
1555 No. Main
216-499-3529

Toledo 43606
Power Tool Sales & Service
2934 Douglas Road
419-473-0962

Toledo 43613
Electric Tool & Equipment
3156 Upton Avenue
419-474-7537

Valley View 44125
Porter-Cable Corporation
Sweet Valley Business Park
Unit #18
216-447-9030

West Milton 45383
Conken Equipment Co.
4950 Frederick Garland Road
513-698-3363

Youngstown 44512
Moff Master Power Tools
5228 Market Street
216-783-2130

OKLAHOMA
Oklahoma City 73126
Whitton Supply Co.
1419 W. Reno
405-236-5561

Tulsa 74101
Wesche Company
P.O. Box 217
2005 East 7th Place
918-583-7551

OREGON
Eugene 97402
Jim's Tool Service
515 Wilson Street
515-344-1513

Medford 97501
Precision Power Tool
Repair Inc.
2919 N. Pacific Highway
503-770-5541

Portland 97212
Continental Machine &
Tool Inc.
51 N.E. Hancock
503-288-6888

PENNSYLVANIA
Erie 16512
Perry Mill Supply Co.
P.O. Box 1206
814-453-5641

Allentown 18103
Curio Electric Repair
825 South 5th
215-432-9923

Harrisburg 17105
Stationary Equipment Sales
& Service
Rear 3605 Ridgeway Rd.
717-545-8043

Kingston 18704
Total Services & Systems, Inc.
166 W. Union Street
717-287-2121

Monroeville 15146
Professional Tool Service
700 Seco Road
Monroeville Industrial Park
412-373-7440

Philadelphia 19107-2375
Ideal Tool & Equipment Service
140 N. 10th Street
215-925-0672

Philadelphia 19154
Porter Cable Corporation
12285 McNulty Road
215-677-7800
Fax No.: 215-677-9908

Slatington 18080
Doward's Electric
4711 Main Street
215-767-8148

RHODE ISLAND
Providence 02914
Porter-Cable Corporation
1009 Waterman Avenue
401-434-3620

SOUTH CAROLINA
Columbia 29203
Mann Electric Repair Co.
3600 Main Street
803-252-7777

Greenville 29602
Poe Corporation
P.O. Box 168
803-271-9000

Myrtle Beach 29577
Coastal Elec. & Rewinding
718 8th Avenue N.
803-448-3586

Spartanburg 29302
Cash Supply
113 Country Club Rd.
803-585-9326

SOUTH DAKOTA
Rapid City 57702
Stan Houston Equipment Co.
1210 Deadwood Avenue
605-348-1155

Sioux Falls 57702
Stan Houston Equip. Co.
501 S. Marrion Road
605-336-3727

TENNESSEE
Chattanooga 37412
F & D Tool Service and Supply
4121 Ringgold Road
615-698-6454

Clarksville 37042
Opa's Shop
312 Pine Mountain Road
615-647-5842

Jackson 38301
Smith Tool Service
908 S. Highland Avenue
901-427-4012

Jamestown 38556
Kirby's Fix-It
P.O. Box 147, 120 N. Norris
615-879-7414

Knoxville 37918
Shop Equipment Service Co.
4821 N. Broadway
615-688-3574

Memphis 38116
Express Tool Service Inc.
1004 East Brooks Road
901-332-1353

Nashville 37210
Allied Tool Repair
1005 Second Ave. S.
615-242-8026

Nashville 37210
Power Tool Service of Nashville, Inc.
1106 Elm Hill Pike
Suite #130
615-255-8227

TEXAS
Abilene 79604
Abilene Lumber Co., Inc.
2025 Industrial Blvd.

Amarillo 79109
Builder's Tool Service
2705 Virginia Circle
806-352-1772

Austin 78722
Hamilton Electric Works Inc.
3800 Airport Blvd.
512-472-2428

Austin 78758-5498
The Tool Box
9906A Gray Boulevard
512-836-5483

Corpus Christi 78405
Corpus Christi Power Tool
& Repair
3701 Aghes
512-883-1117

Corpus Christi 78405
Otto Dukes Machinery Co.
2588 Morgan Street
512-883-0921

Dallas 75220
Porter-Cable Corporation
10714 N. Stemmons Freeway
214-353-2996

El Paso 79905
C. L. North Co.
123 Chelsea Street
915-772-1469

Ft. Worth 76110
Air & Electric Tool Co., Inc.
3301 South Grove
817-921-0231

Houston 77092
Porter-Cable Corporation
5201 Mitchelldale, Suite B-9
713-682-0334

Longview 75606
Eastex Welding
Box 3223, 1232 W. Marshall
214-758-7327

Lubbock 79405
Lubbock Electric Co.
1108 34th Street
806-744-2336

San Antonio 78205
Electric Motor Service
1514 E. Commerce
512-226-3462

Sherman 75090
Texoma Tool Repair Co.
309 E. Houston Street
214-892-1510

Texarkana 75501
Ray's Electric Motor Repair
922 Bowie Street
214-792-7031

Tyler 75702
Mason Machinery
1908 W. Erwin Street
214-592-6581

Weslaco 78596
Weslaco Tool Co.
316 E. 4th Street
512-968-9156

Wichita Falls 76307
Bond Tool Company
P.O. Box 32
817-322-5343

UTAH
Salt Lake City 84115
A.C. Tool and Service, Inc.
2990 South West Temple
801-487-4953

VERMONT
S. Burlington 05403
Burlington Tool Repair
23 San Remo Drive
802-658-4131

VIRGINIA
Charlottsville 22901
Allen Desper Repair Service
P.O. Box 1612
1132 E. Market Street
804-293-7913

Harrisonburg 22801
Rocking R Hardware
1030 S. High Street
703-434-9967

Newport News 23606
National Tool Supplies
806 Middle Ground Blvd.
804-873-1115

Norfolk 23517
Bryan Electric Co., Inc.
424 West 25th Street
804-625-0378

Norfolk 23502
*Henry Walke Co.
1161 Ingle Side Road
804-855-0502

Richmond 23230
Southland Power Tool Srv.
1705 Dabney Road
804-257-7348

Roanoke 24013
Roanoke Armature Co.
1108½ Street S.E.
703-345-8741

WASHINGTON
Renton 98055
Porter-Cable Corporation
268 Southwest 43rd Street
206-251-6680

Spokane 99202
Spokane Power Tool
E. 801 Trent Avenue
509-489-4202

Yakima 98901
Cooper Electric Motor Service
205 S. 4th Avenue
509-452-9550

WEST VIRGINIA
Huntington 25701
Lawter Electric Motor Co.
202 Adams Avenue
304-522-8297

Wheeling 26003
Kennedy Hardware
3300 McCulloch Street
304-233-3600

WISCONSIN
Green Bay 54301
Power Tool Service Co.
310 N. Webster Ave.
P.O. Box 1343
414-437-2594

Janesville 53546
Blain Supply, Inc.
P.O. Box 391
3507 East Racine
607-754-2821

LaCrosse 54603
A-Line Machine Tool Co.
800 Monitor St.
608-785-1515

Madison 53713
Electric Motors Unlimited
1000 Jonathan Drive
608-271-2311

Milwaukee 53222
Porter-Cable Corporation
10700 W. Burleigh Street
414-774-3650

Oshkosh 54901
*Kitz & Pfeil Hardware
427 North Main
414-236-3340

Wausau 54401
R.A. Miller Supply
1109 McCleary Street
715-842-9189

WYOMING
Casper 82601
Casper Saw Shop
147 S. McKinley
307-237-3279

PUERTO RICO
Sierra Bayamon 00619
B & M Electric Tool
Repair Center
Calle 49, Bloque 51
Casa 27 Avenue West Main
809-787-2287

CANADA

Alberta
Calgary T2H 2L7
#10 6320 11th St. S.E.
403-255-3530

British Columbia
Burnaby V5A 4T8
8520 Baxter Place
604-420-0102

Manitoba
Winnipeg R3H 0H2
1699 Dublin Avenue
204-633-9259

Ontario
Mississauga L4V 1J2
6463 Northam Drive
416-677-5330

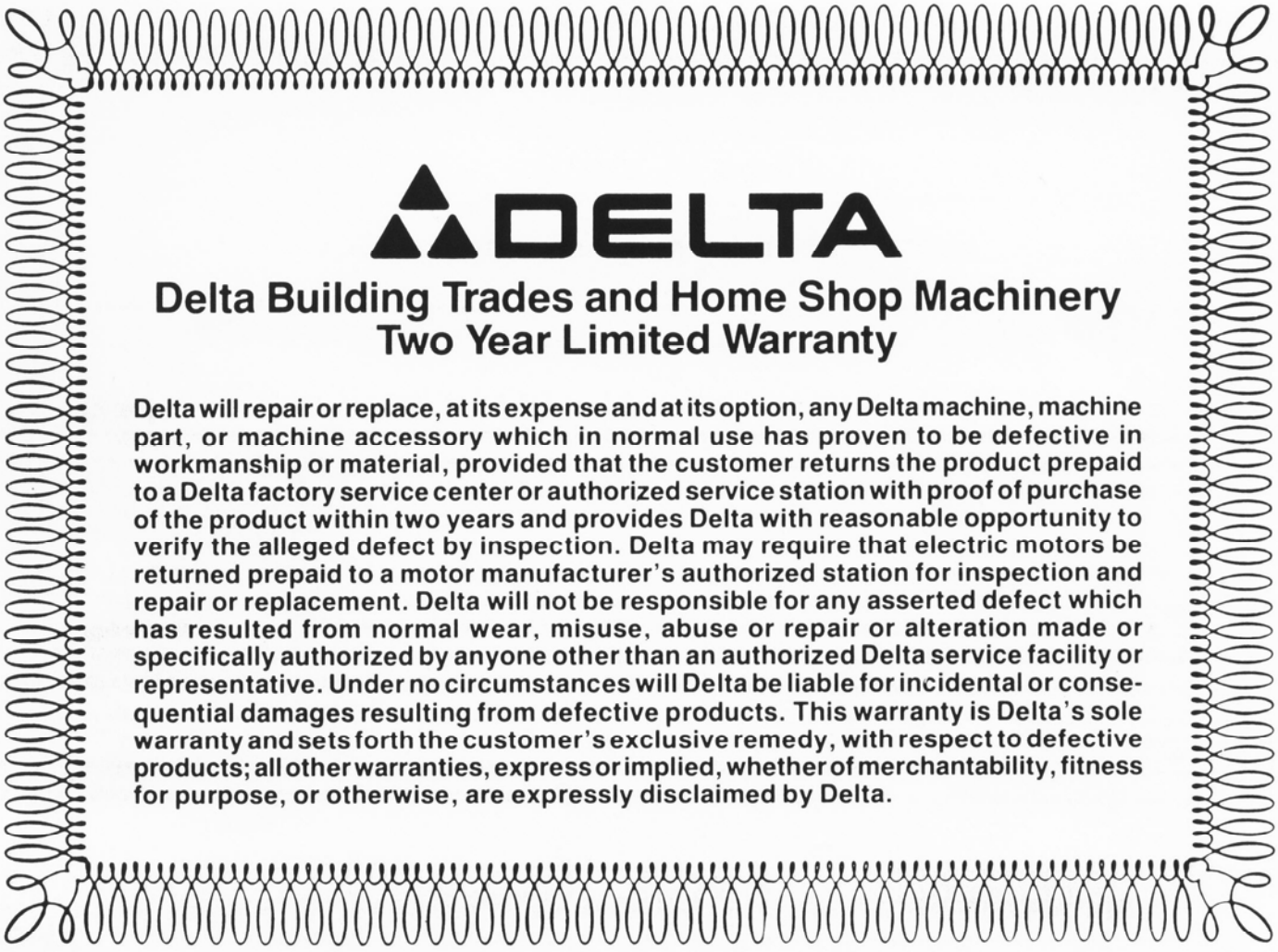
Guelph N1H 6M7
644 Imperial Road
519-836-2840

Ottawa K2A 3X2
851 Richmond Road
613-728-1124

Quebec
St. Laurent
(Montreal) H4N 1W2
523 Rue Deslauriers
514-336-8772

Ste. Foy G1N 4L5
Suite 202
2202 Rue Lavoisier
418-681-7305

*IND. MACHINERY SERVICE



DELTA

Delta Building Trades and Home Shop Machinery
Two Year Limited Warranty

Delta will repair or replace, at its expense and at its option, any Delta machine, machine part, or machine accessory which in normal use has proven to be defective in workmanship or material, provided that the customer returns the product prepaid to a Delta factory service center or authorized service station with proof of purchase of the product within two years and provides Delta with reasonable opportunity to verify the alleged defect by inspection. Delta may require that electric motors be returned prepaid to a motor manufacturer's authorized station for inspection and repair or replacement. Delta will not be responsible for any asserted defect which has resulted from normal wear, misuse, abuse or repair or alteration made or specifically authorized by anyone other than an authorized Delta service facility or representative. Under no circumstances will Delta be liable for incidental or consequential damages resulting from defective products. This warranty is Delta's sole warranty and sets forth the customer's exclusive remedy, with respect to defective products; all other warranties, express or implied, whether of merchantability, fitness for purpose, or otherwise, are expressly disclaimed by Delta.