



Operating Manual & Parts List  
**9683417**

# 12" Radial Arm SAW



**Read carefully and follow all safety rules and operating instructions before first use of this product.**

# 12" Radial Arm Saw



## SPECIFICATIONS

Motor with Break .....	2 HP, 220 V, 6.5 A, 3400 RPM, 1 PH
Arbor .....	5/8" with 1" Bushing
Blade .....	12" Blade, 1" Bore
Max Depth of Cut at 90 Degrees° .....	3"
Max Depth of Cut at 45° .....	3"
Crosscut Capacity .....	14-1/8" Max. at 3" Cut Depth
.....	16" Max. at 1" Cut Depth
Rip Cut Capacity .....	16-3/8"
Dado Capacity .....	1-1/4"
Bevel Positive Stops .....	0°, 45° & 90°
Miter Positive Stops .....	90° & 45° Left and Right
Wood Table .....	.27-1/2" x 35-3/8"

# **RULES FOR SAFE OPERATION**

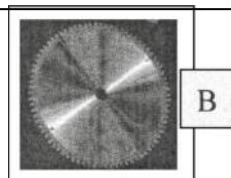
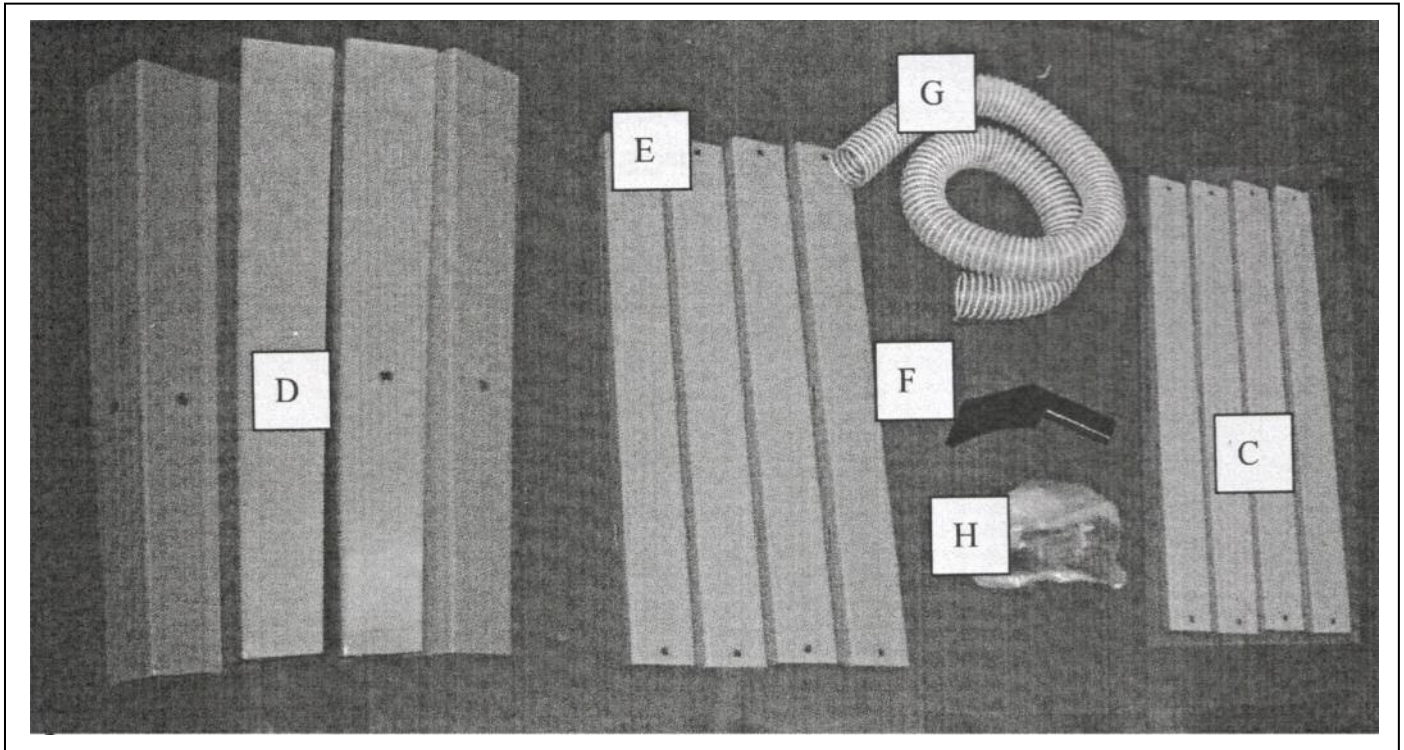
1. Do not operate the saw when tired, distracted, or under the effects of drugs, alcohol or any medication that impairs reflexes or alertness.
2. The working area should be well lit, clean and free of debris.
3. Keep children and visitors at a safe distance when the saw is in operation; do not permit them to operate the saw.
4. Childproof and tamper proof your shop and all machinery with locks, master electrical switches and switch keys, to prevent unauthorized or unsupervised use.
5. **Stay alert!** Give your work your undivided attention. Even a momentary distraction can lead to serious injury.
6. Fine particulate dust is a carcinogen that can be hazardous to health. Work in a well-ventilated area and whenever possible use a dust collector and wear eye, ear and respiratory protection device.
7. Do not wear loose clothing, gloves, bracelets, necklaces or other jewelry while the saw is in operation. Wear protective hair covering to contain long hair and wear non-slip footwear.
8. Be sure that adjusting wrenches, tools, drinks, and other clutter are removed from the machine and/or the feed table surface before operating.
9. Keep hands well away from the blade and all moving parts. Use a brush , not hands, to clear away chips and dust.
10. Be sure that the blade is securely installed and in proper cutting direction before operation.
11. Be sure the blade has gained full operating speed before beginning to cut.
12. Always use a clean, properly sharpened blade. Dirty or dull blade are unsafe and can lead to accidents.
13. If using a power feeder, stop the feeder before stopping the table saw.
14. Do not push or force stock into the blade. The saw will perform better and more safely when working at the rate for which it was designed.
15. Use suitable support when cutting stock that does not have a flat surface. Always hold stock firmly against the fence when ripping, or against the miter gauge when cross-cutting.
16. To minimize risk of injury in the event of workpiece kickback, never stand directly in-line with the blade or in the potential kickback path of the workpiece.
17. Avoid working from awkward or off balance position. Do not overreach while cutting; keep both feet on floor. Never lean over or reach over the blade and never pull the workpiece over the blade from behind. Use out feed support or have an assistant help when ripping long material.
18. Keep blade guards in place and in working order. If a guard must be removed for maintenance or cleaning, be sure it is properly reattached before using the tool again.
19. Never lean the machine running with the power in when not in operation.
20. Never stand on machinery. Serious injury could result if the tool is tipped over or if the blade is unintentionally contacted.
21. Always disconnect tool from power before servicing or changing accessories such as blades, or before performing any maintenance, cleaning or adjustment, or if the machine will be left unattended.

- 22.** Make sure that switch is in “OFF” position before plugging in the power cord.
- 23.** Make sure the tool is properly grounded. If equipped with a 3-prong plug it should be used with a three-pole receptacle. Never remove the third prong.
- 24.** Do not use this saw for other than its intended use.

# **UNPACKING AND CLEANING**

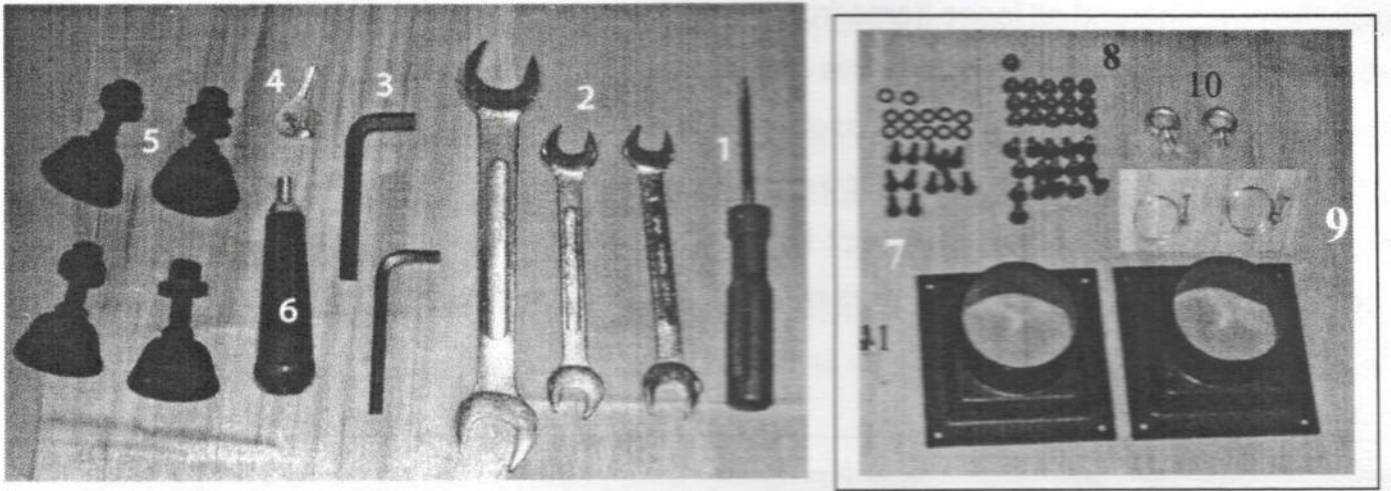
Carefully unpack the machine and all loose items from the shipping container(s). Remove the protective coating from all unpainted surface. This coating may be removed with a soft cloth moistened with kerosene (do not use acetone, gasoline or lacquer thinner for this purpose). After cleaning, cover the unpainted surfaces with a good quality household floor paste wax.

**To reduce the risk of injury, do not connect the machine to the power source until the machine is completely assembled and you read and understand the entire instruction manual.**



- A. MACHINE ( NOT SHOW)**
- B. 12" BLADE**
- C. LEG BRACE SHORT**
- D. LEGS**
- E. LEG BRACE**
- F. SPREADER**
- G. 2" HOSE**
- H. HARDWARD BAG**

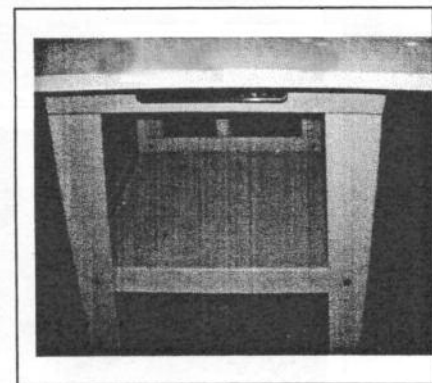
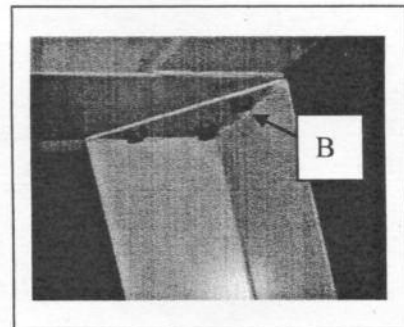
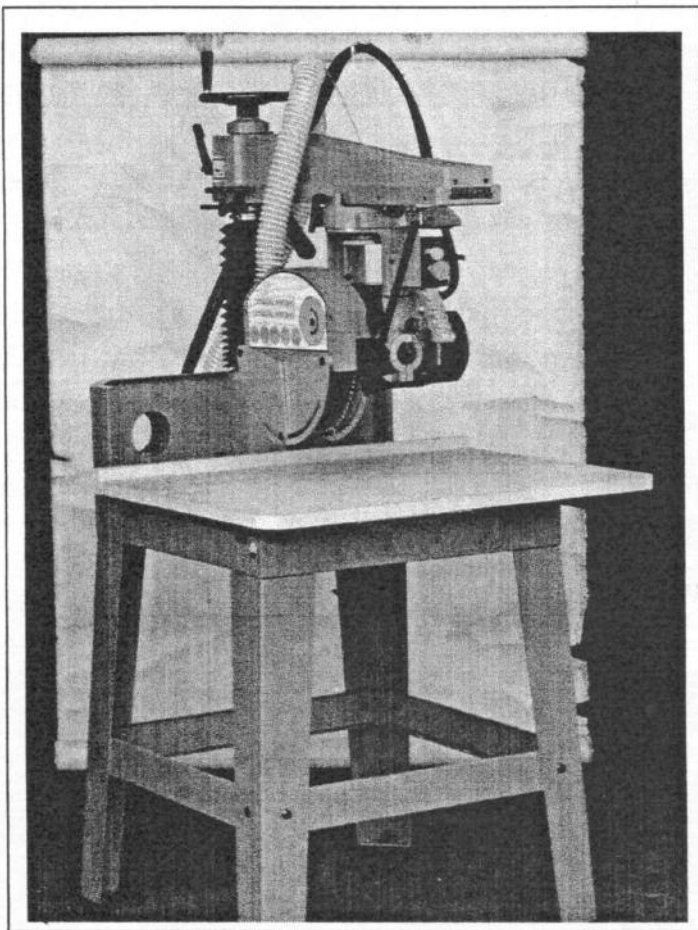
# HARDWARE BAG



- |     |                             |        |
|-----|-----------------------------|--------|
| 1.  | SCREW DRIVER                | 1 PCS  |
| 2.  | WRENCH 11/13, 12/14, 21/23  | 3 PCS  |
| 3.  | ALLEN KEY                   | 2 PCS  |
| 4.  | KEY FOR SWITCH              | 1 PCS  |
| 5.  | FOOT PAD WASHERS AND SCREWS | 4 PCS  |
| 6.  | KNOB                        | 1 PCS  |
| 7.  | SCREWS                      | 12 PCS |
|     | WASHERS                     | 12 PCS |
| 8.  | SCREWS                      | 16 PCS |
|     | WASHERS                     | 18 PCS |
| 9.  | HOSE CLAMP 2"               | 2 PCS  |
| 10. | HANGER                      | 2 PCS  |
| 11. | DUST CHUTE                  | 2 PCS  |

## ATTACHING STAND TO THE MACHINE

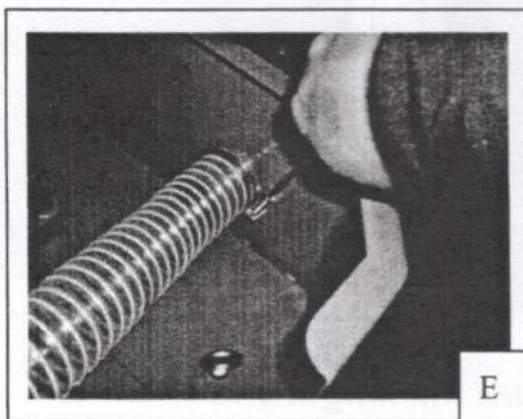
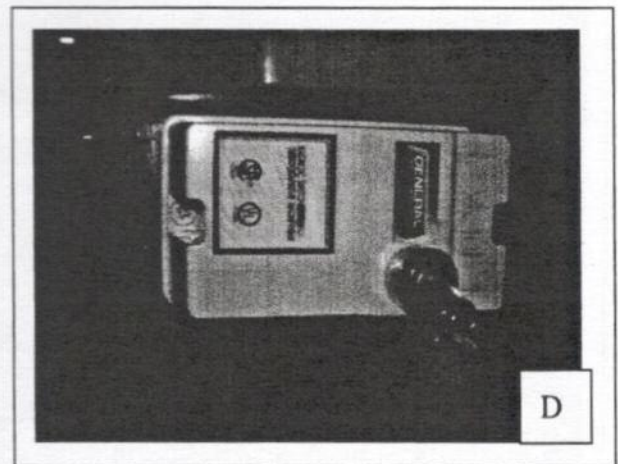
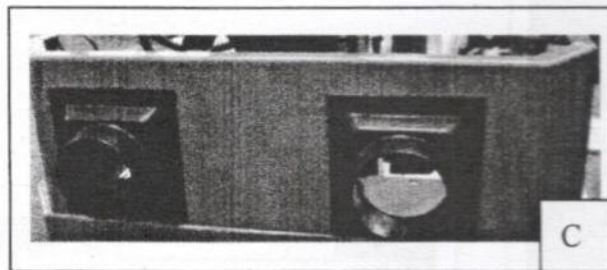
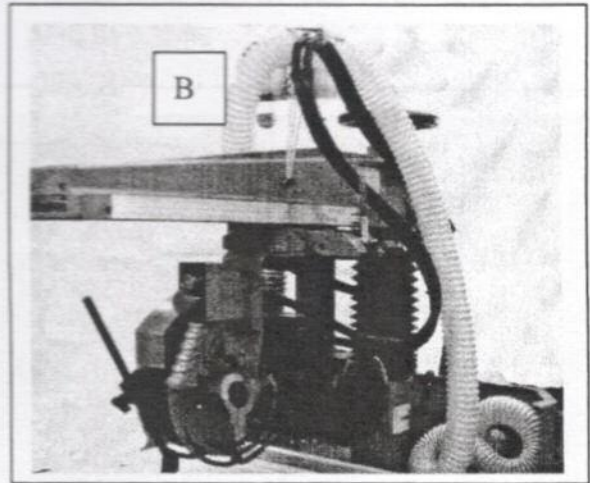
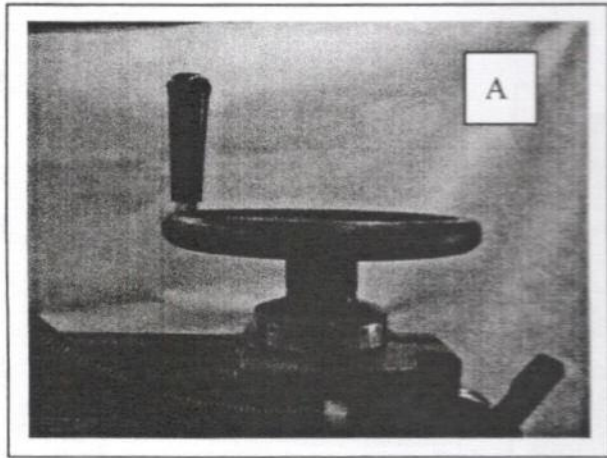
1. Assemble the stand first. With 16 shoulder bolts, washers and hex nuts, begin assembling one end of stand by attaching 1 short shelf and 1 long brace to legs.
2. Assemble the opposite side of the stand the same way as described in step 1. Then use the 2 short shelves and 2 long braces to join both assembled ends and complete the stand then upside down complete stand in leveling place tighten all nuts.
3. Attach the 4 leveling feet to the stand by using 4 hex nut and 8 washers, place in its final location after fully assembly, level the feet by loosening top nut, adjusting lower nut up or down on the screw stem as need. Then tightening down the top nut.
4. Use a heavy-duty lifting device (fork lift, pulley, etc) with lifting straps and steel rods that can support the weight to lift the machine to stand, assemble the stand to each corner (see picture) of the base underneath. Use 12 hex head screws and flat washers (B)



**If you needed tool storage, please measure the length and width of braces, and cut the thickness as you required for the wood piece. Put the wood piece onto stand braces for tool tray.**

# ATTACHING THE OVERARM ELEVATING HAND WHEEL

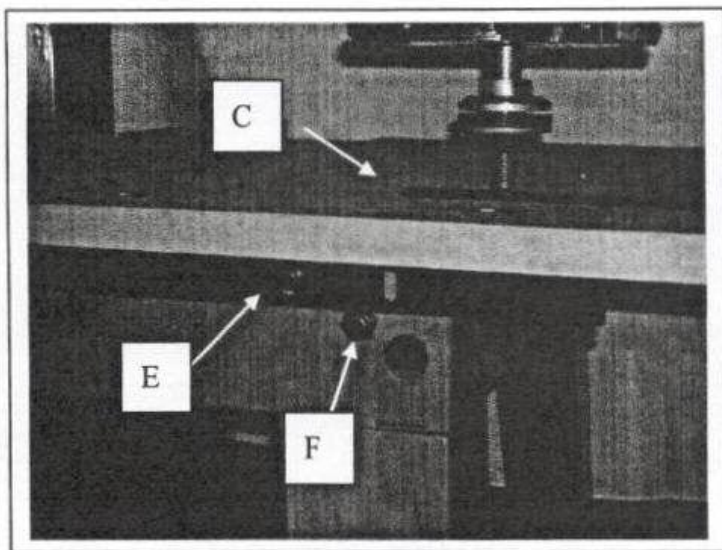
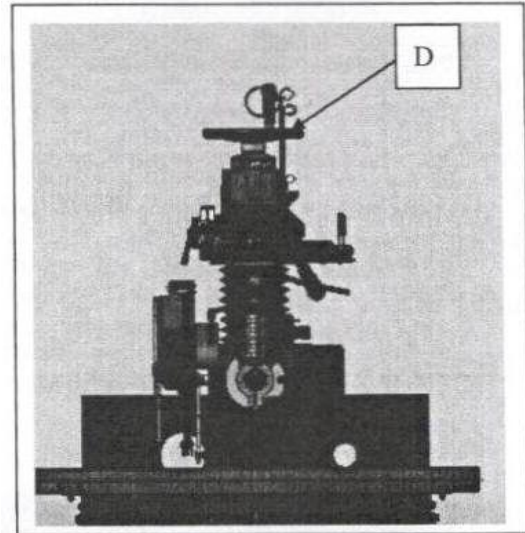
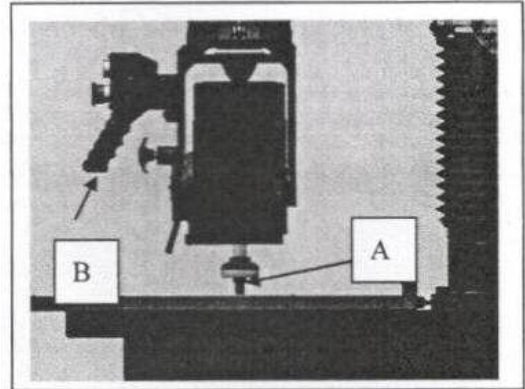
1. Fasten the elevating handle wheel knob to the elevating wheel (A).
2. Adjust cable hanger to "B" position.
3. Remove the screws located on back side of dust bracket, assemble the dust chute to dust bracket (C).
4. Remove the screws located on back side of base, and then assemble the switch box to the base (D).
5. Assemble the hose to dust bracket tighten hose clamp (E).



# **ADJUSTING TABLE TOP PARALLEL TO TRACK-ARM**

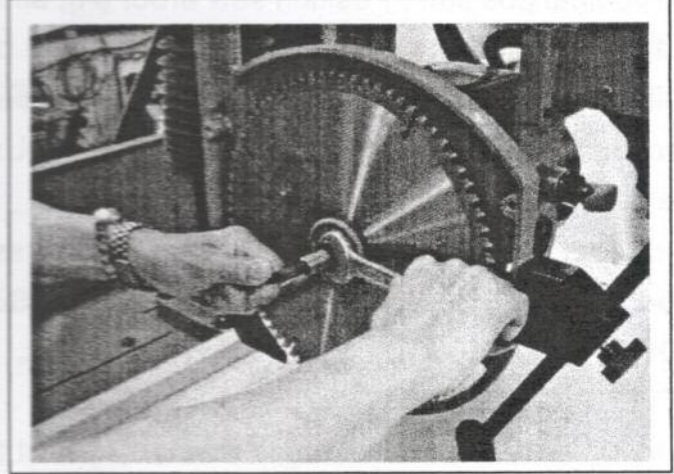
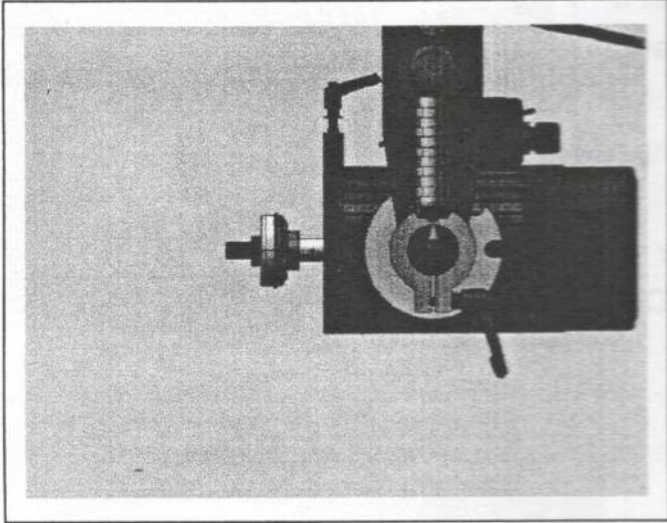
For accurate work the track-arm must be parallel to the table top at all points. To check and adjust:

1. Move the motor and cutter head assembly to the vertical position. Position saw arbor (A), so that it is approximately in the center of the front table board. Pull track-arm clamp handle (B) to the rear to secure track-arm and tighten cutter head clamp knob. Using the block (C) as a feeler gauge, raise or lower track-arm by turning elevating handle (D) until saw arbor (B) just touches block (C). **DO NOT RAISE OR LOWER TRACK-ARM ANY FURTHER UNTIL LEVELING ADJUSTMENT IS COMPLETED.**
2. Move cutter head until the saw arbor (A) is at the left front table, as shown. Make sure track-arm clamp lever and cutter head lock knob are tightly. Using the block (C) as a feeler gauge check to see if an adjustment is necessary. To lower the table, loosen nut (E) and adjust screw (F) to raise the table, reverse this adjustment. Check table back at point and adjust if necessary. Check table on right side in the same manner.



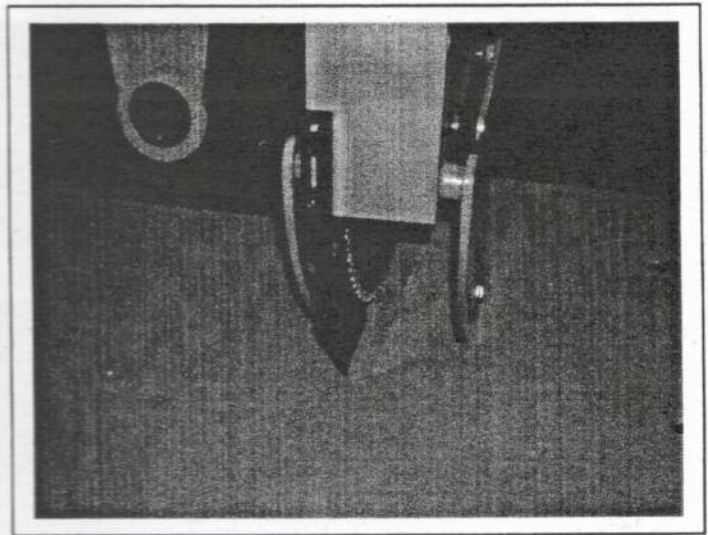
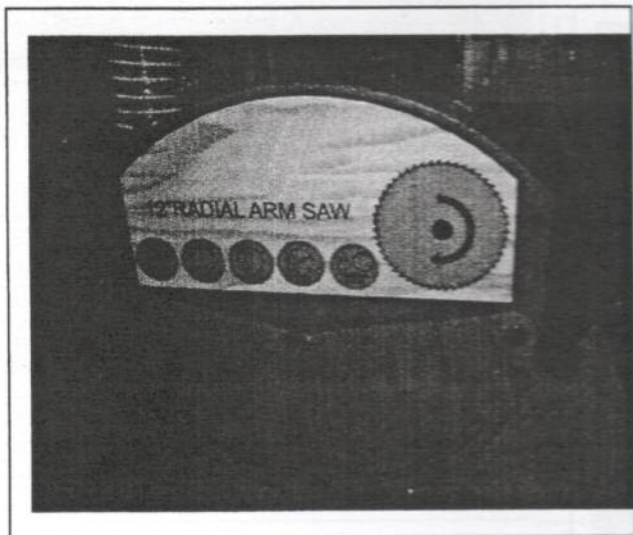
# **BLADE GUARD AND ANTIKICKBACK DEVICE**

1. Remove the outer blade guard.
2. Remove arbor nut and outer blade flange.
3. Install blade on the saw arbor with teeth of blade pointing downward when viewed from front of saw, and thread the arbor nut onto the arbor.



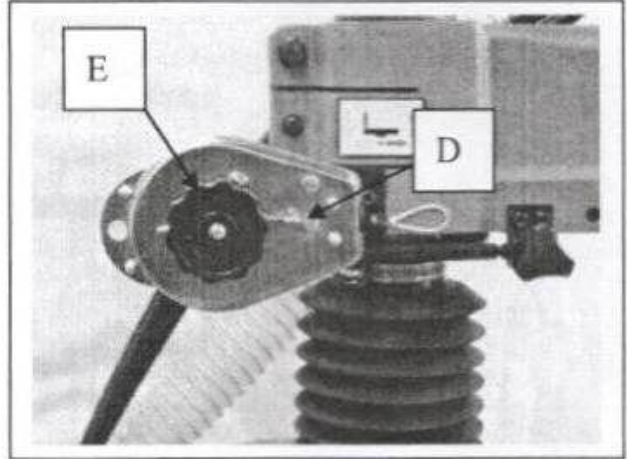
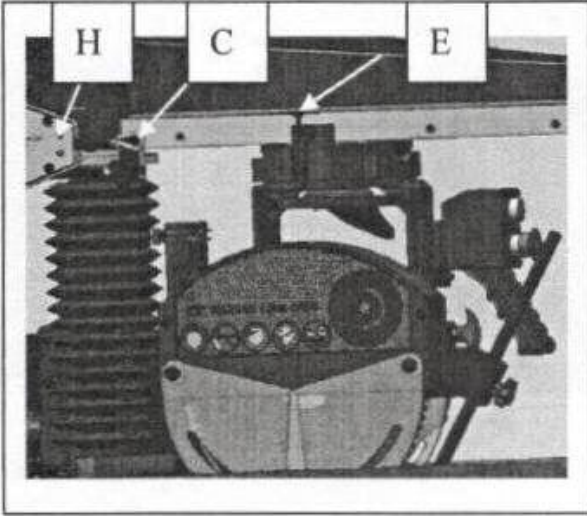
4. **IMPORTANT:** To prevent arbor nut spinning when blade stops, place the Allen key into the shaft hole and firmly tighten arbor nut with the 21mm spanner wrench ( left handed thread ).
5. Place outer blade guard in place and fasten cap screws.
6. Assemble spreader to blade guard, and fasten in place with cap screw.

**NOTE:** It will be necessary to tighten the blade guard and anti-kickback rod.



# CUTTER HEAD RETURN SPRING

1. Return the cutter head assembly to rear track arm.
2. Attach eyelet (H) of cable assembly (C) to cutter head screw (E).
3. NOTE: To prevent premature wear of return reel cable, position the return reel so that the cable does not rub against the wall of the return reel.



## Adjust tension on cutter head return assembly.

1. To increase cable tension, pull up on cable tension release key (D), turn adjustment knob (E) clockwise.
2. To decrease cable tension, pull up on cable tension release key (D), turn adjustment knob (E) counter-clockwise.

# OPERATIONAL CONTROLS AND ADJUSTMENTS

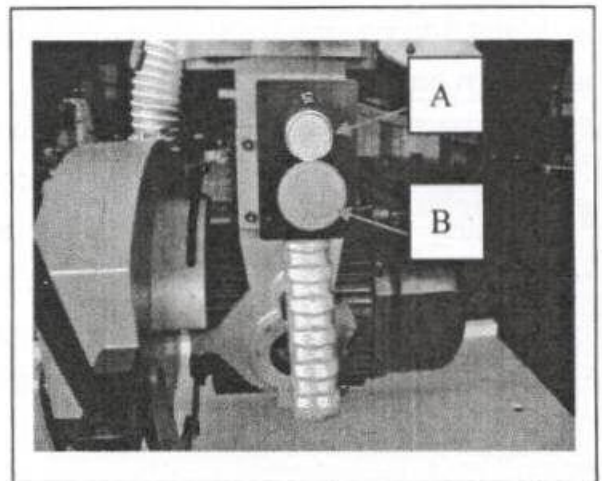
## STANDING AND STOPPING SAW

1. The on/off switch is located on the front of the saw. To turn the machine on, push the "ON" button (A)
2. To turn the machine "OFF", push the "EMS" button (B).

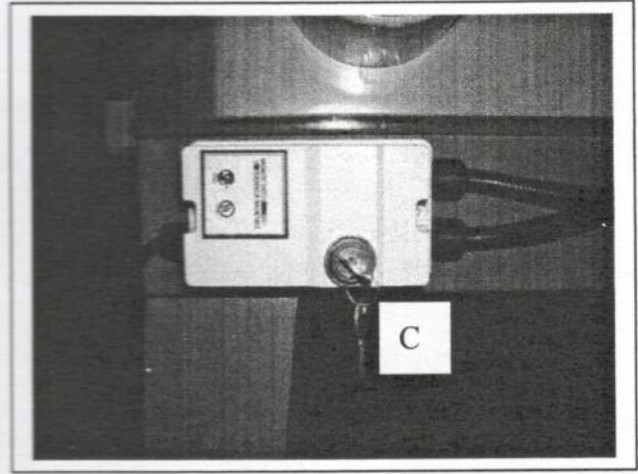
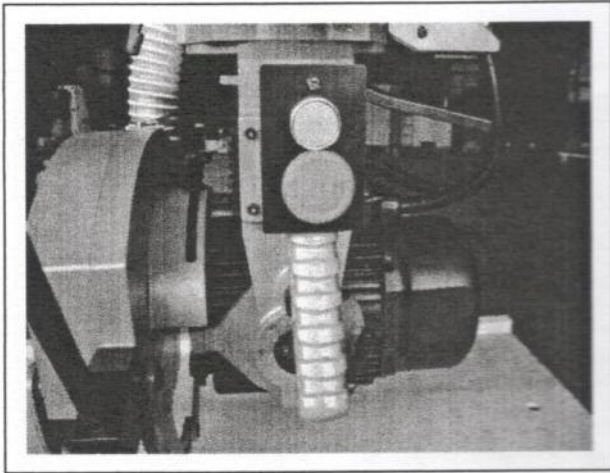
**MAKE SURE THAT THE SWITCH IS IN THE "OFF" POSITION BEFORE WIRING THE MACHINE. IN THE EVENT OF A POWER FAILURE, PUSH THE STOP BUTTON. AN ACCIDENTAL STARTUP CAN CAUSE INJURY.**

## **LOCKING SWITCH IN "OFF" POSITION**

**IMPORTANT:** When the machine is not use, the switch should be locked in the "OFF" position to prevent unauthorized use, **TO PREVENT UNWANTED OR**



**UNAUTHORIZED START-UP OR USAGE, REMOVE THE LOCK KEY(C) AND STORE IT IN A SAFE PLACE, OUT OF THE REACH OF CHILDREN, WHENEVER THE SAW IS NOT IN USE.**



Every Radial Arm Saw is thoroughly tested, inspected and accurately aligned before leaving the factory and, when delivered, is ready for operation after it is assembled. However, regardless of the care with which this or any piece of fine machinery is manufactured, inspected and shipped, it is possible that rough handling in shipment, or wear over a period of time may make minor adjustments necessary.

**ALWAYS DISCONNECT MACHINE FROM POWER SOURCE BEFORE MAKING ANY ADJUSTMENTS.**

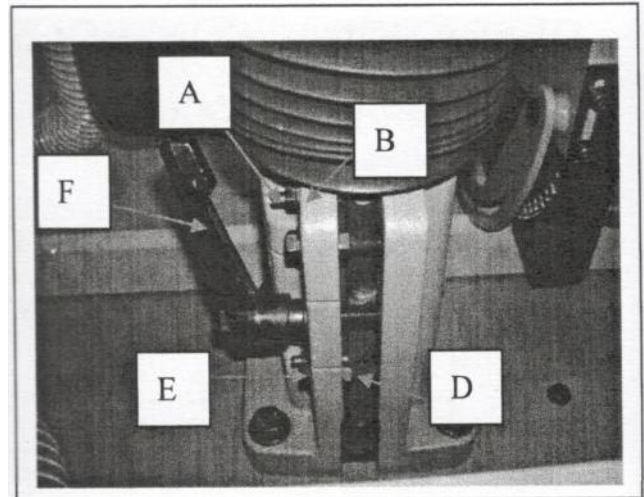
## **TAKING SIDE MOTION OUT OF OVER-ARM**

### **DISCONNECT MACHINE FROM POWERSOURCE**

1. Loosen hex nuts (A) and adjusting screws (B).
2. Loosen nuts (D) , and adjust bolts (E), so that base wraps around column securely. If column is tight in base, turn bolts (E) clockwise to loosen.

**IMPORTANT:** Turning bolts (E) counter clockwise and tightening nuts (D) will close the base jaws. Check elevation by turning crank handle, making sure the column moves up and down without binding.

3. Tighten screws (B) against the column until all side motion disappears in over-arm.
4. Securely lock hex nuts (A) while holding screws (B).



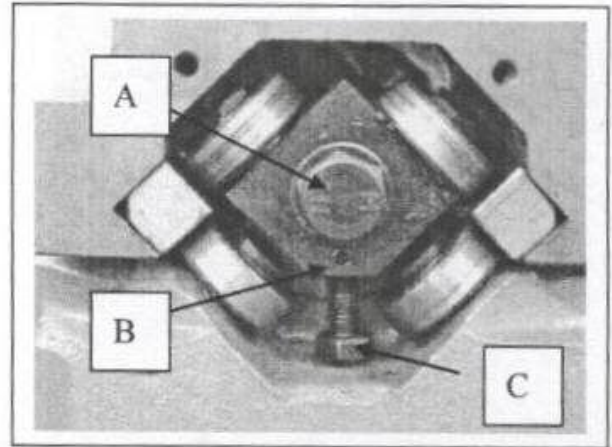
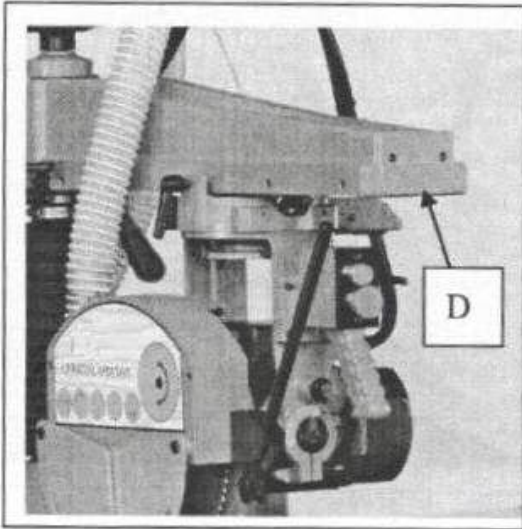
# **ADJUSTING BALL BEARINGS AGAINST TRACK RAILS**

## **WARNING DISCONNECT MACHINE FROM POWER SOURCE**

After extended use “play” may develop between yoke and bearing carriage.

To reduce “play”:

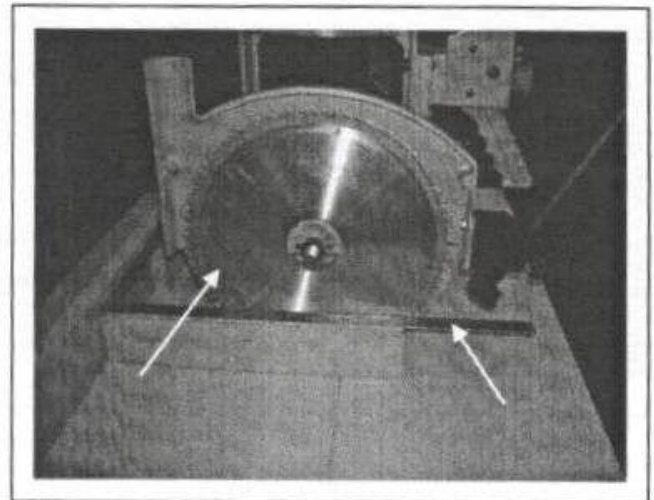
1. Locked yoke in place.
2. Remove end plate (D) from track arm.
3. Loosen screws (A,B) and adjust screw (C) until bearing tough track rails, tighten the screws (A,B).
4. Same process on back side.
5. Replace end plate on the track-arm.



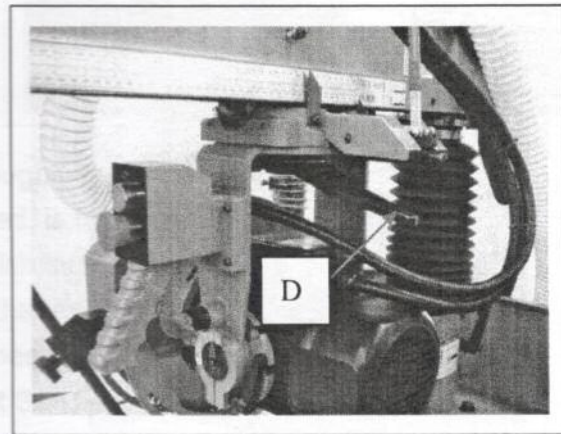
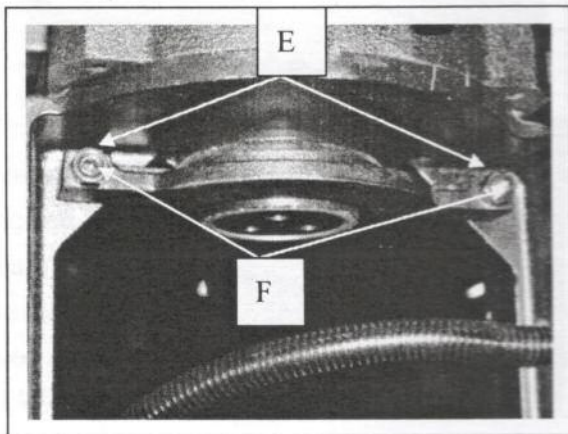
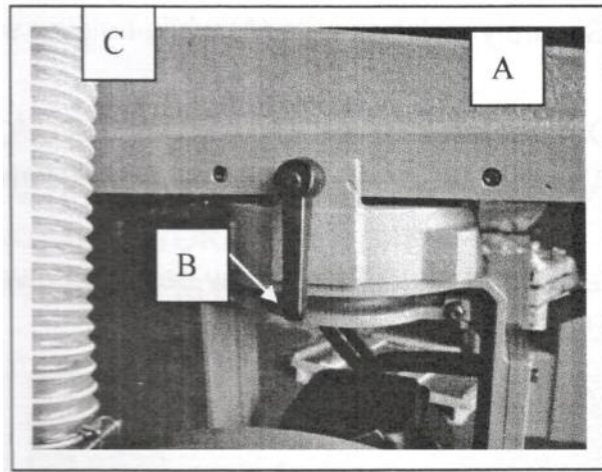
# **OPERATIONAL CONTROLS AND ADJUSTMENTS**

## **ADJUSTING AND CHECKING SAW BLADE TRAVEL SQUARE TO FENCE**

1. DISCONNECT MACHINE FROM POWER SOURCE.
2. Raise track arm, by turning elevating handle until the blade enough space.
3. Remove outer blade guard.
4. Place a framing square (A), against fence as shown, and lower track arm until the blade just clears the table surface.
5. Loosen cutting-head clamp knob (B), and slide cutter head the entire length of track arm as shown to determine if blade (C) travels parallel to the square (A).

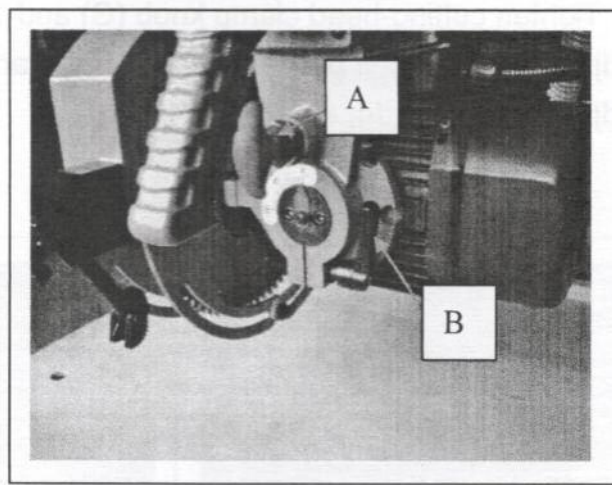
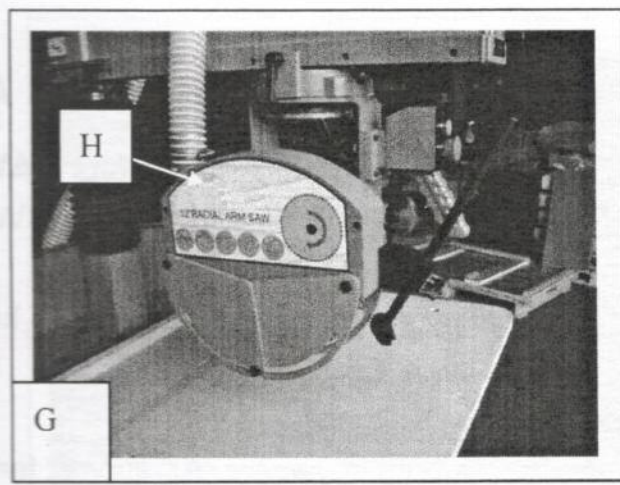


6. If an adjustment is necessary, loosen index lock handle (D).
7. Loosen the nuts (F) and adjust the cutter head screws (E), until blade (C) travels parallel to square (A). Then tighten index lock handle (D).
8. Slide cutting-head the entire length of track arm check blade (C) travels parallel to the square (A) again.
9. Tighten adjust cutter head screws.



### **CHECKING AND ADJUSTING SAW BLADE SQUARE TO TABLE**

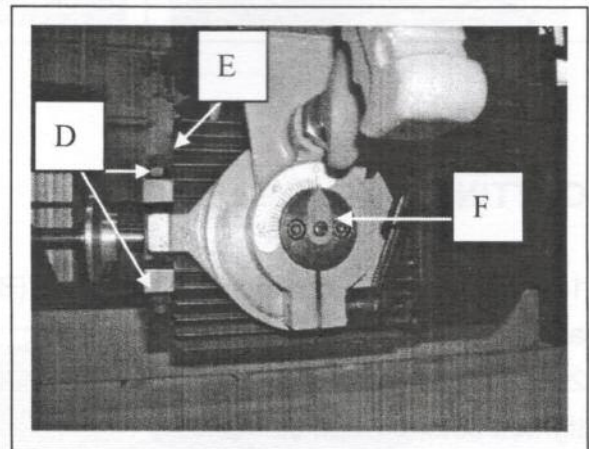
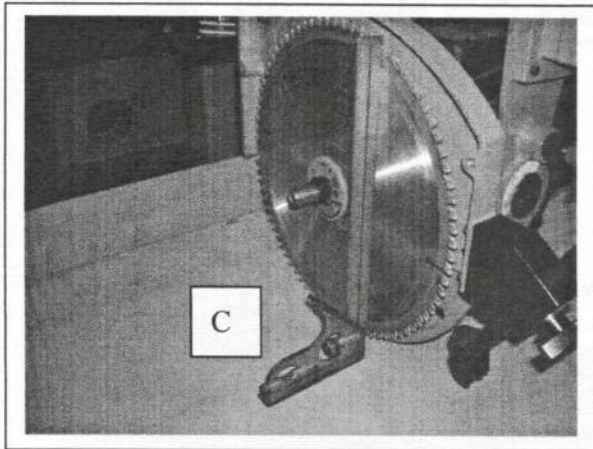
1. DISCONNECT MACHINE FROM POWER SOURCE.
2. Place the cutter head in a cross-cut position as shown. Lower track arm until the saw blade is just clear of the table and slide the cutter head forward until it is positioned over the front table board; clamp the cutting-head in position as shown (G).
3. Remove outer blade guard (H).
4. Make certain the bevel index knob (A) is engaged and the motor is in a horizontal position. Tighten bevel clamp handle (B).



- Place a square (C) on the table and against the saw blade, as shown, and check to see if the blade is square with the table.

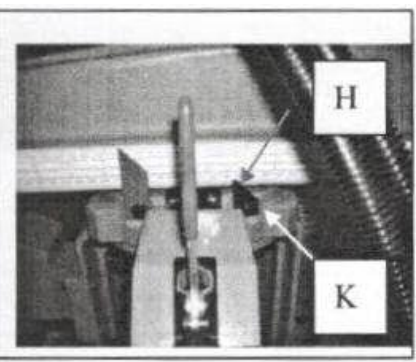
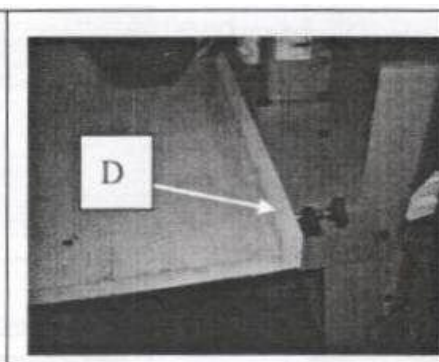
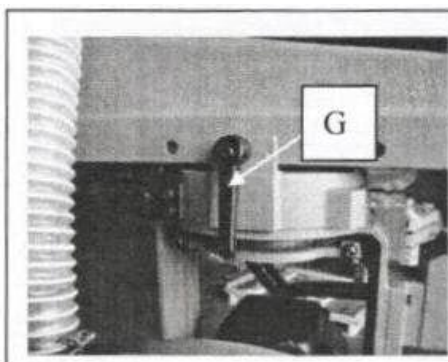
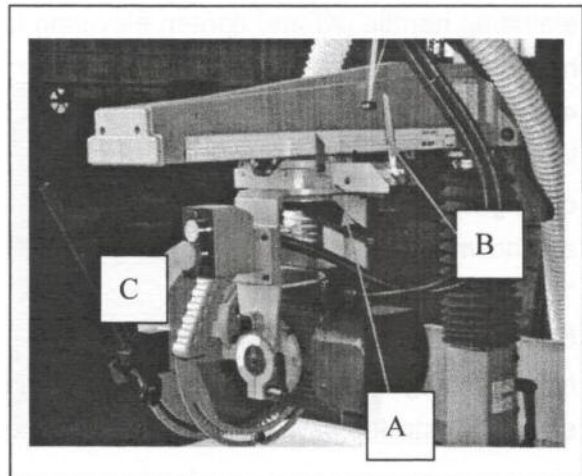
**NOTE: The square shown rest between two teeth of the saw blade.**

- If an adjustment is necessary, make certain bevel clamp hand (B) is tight. Loosen nuts (D), adjust screws (E) until the blade square to table.
- Adjust pointer (F) to "zero" on the bevel index scale.
- Replace the outer blade guard.



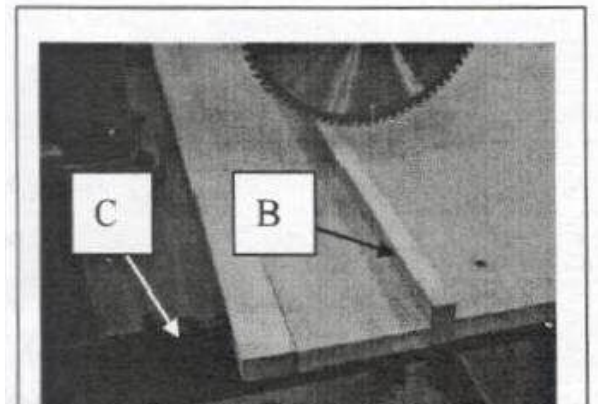
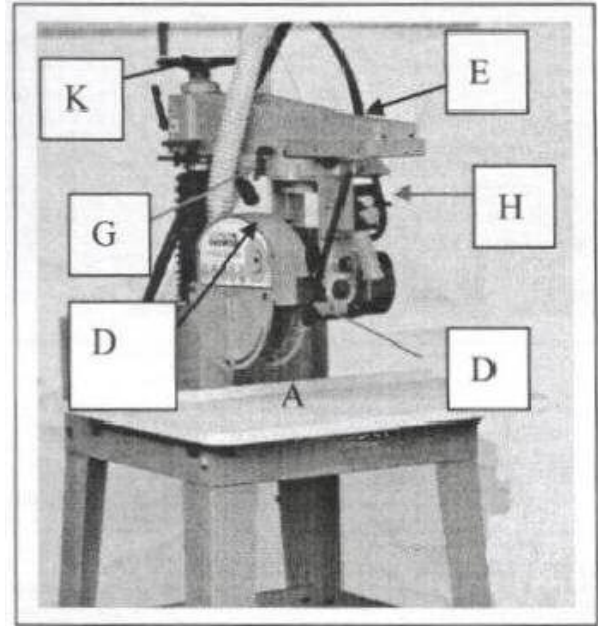
### **ADJUSTING IN/OUT RIP SCALE**

- DISCONNECT MACHINE FROM POWER SOURCE.
- Remove spring load eyelet from cutter head.
- Loosen yoke clamp handle (A). Release yoke index by pulling out yoke indexing release lever (B) and rotating cutting-head (C) to the in-rip position as shown. Tighten yoke clamp lever (A).
- Position fence (D), at the table as shown.
- Loosen cutting-head clamp knob (G) and slide cutting-head (C) to rear of track arm until saw blade is flush against fence (D).
- Tighten cutting-head clamp knob (G) and adjust pointer (H), if necessary, to "zero" make on lower scale by loosening screw (K). After adjustment is made, tighten screw (K).

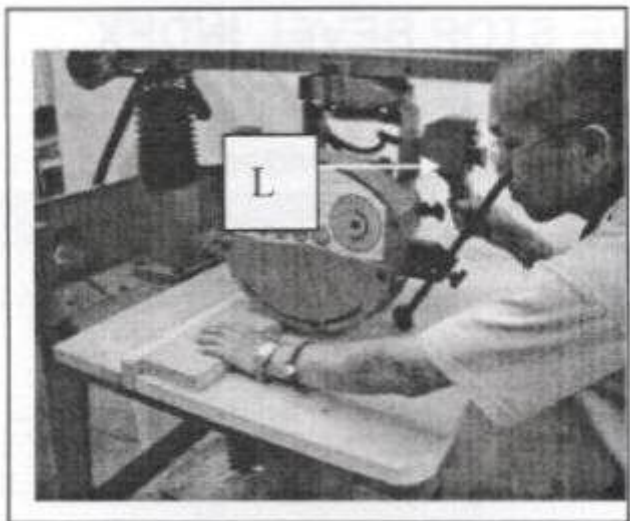


## CUTTING INTO TABLE BOARDS

1. Assemble table boards (A), and fence (B) as shown and secure in place with table clamps (C).
2. Return cutting-head (D) to rear of track arm (E), and tighten cutting-head clamp knob (G). Make sure switch (H) is in the "OFF" position and connect saw to power source.
3. While holding cutting-head handle (L) firmly, turn switch (H) "ON" and loosen elevating lock handle lower track arm (E) by turning elevating handle (K) as shown. Lower saw blade until it cuts into the table surface approximately 1/16" deep. Then stop turning elevating handle (K) and tighten elevating lock handle.
4. While still holding cutting-head handle (L) firmly, loosen cutting-head clamp knob (G), and slowly pull cutting-head (D), toward the front of the track arm (E) as shown, until travel stops. Then turn switch (H) "OFF".
5. Once saw blade (M) has come to a complete stop, return cutting-head (D) to rear of track arm (E) as shown, illustrates saw kerf (N) cut into table boards.
6. Same procedure of 45° right and left cut.

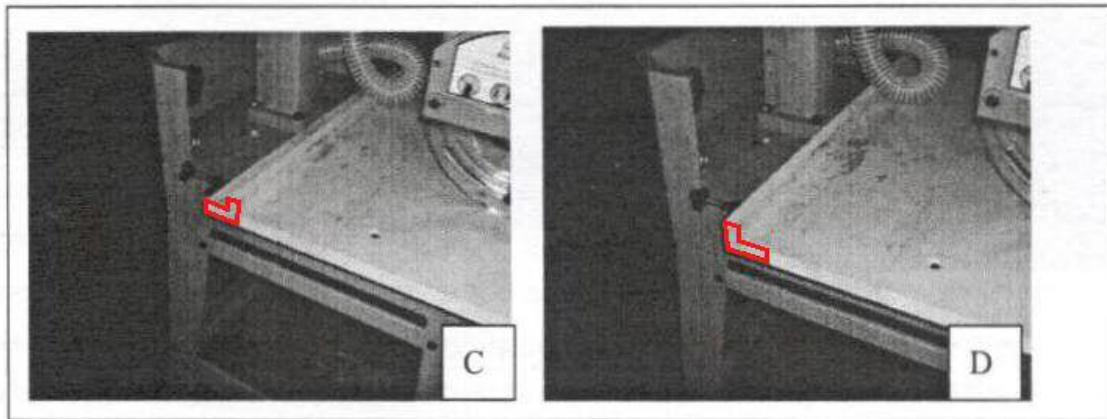
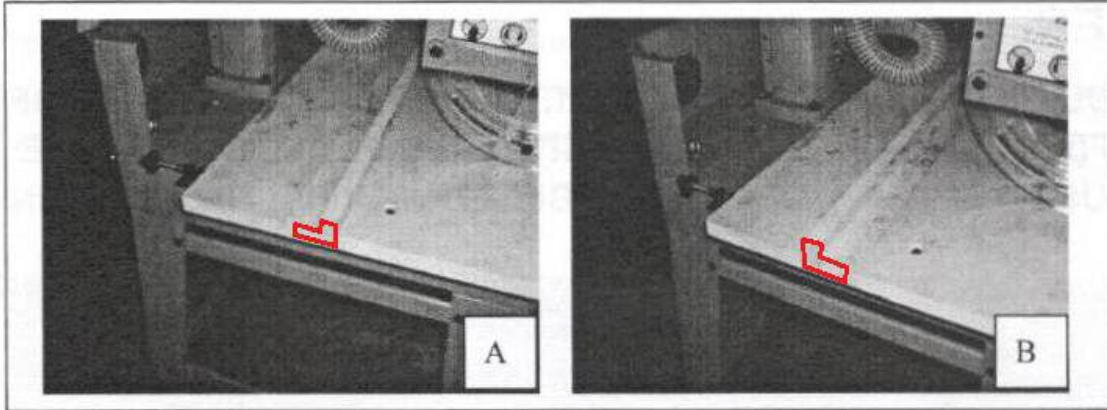


**IMPORTANT: THE TRACK ARM (E), MUST BE RAISED BEFORE ATTEMPTING TO ROTATE IT.**



## **FENCE POSITION**

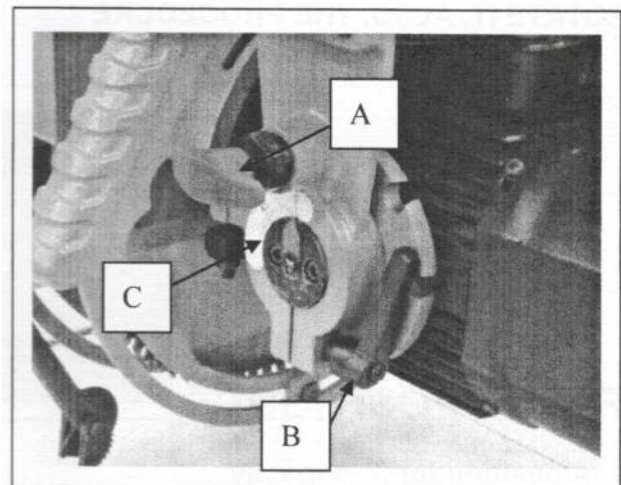
1. A position for 3" capacity
2. B position for 1" capacity
3. C position for in ripping
4. D position for out ripping



## **POSITIVE STOP BEVEL INDEX**

Bevel index knob (A), provides a positive stop when positioning the saw blade at zero, 45° , and 90° left, on the bevel scale (C).

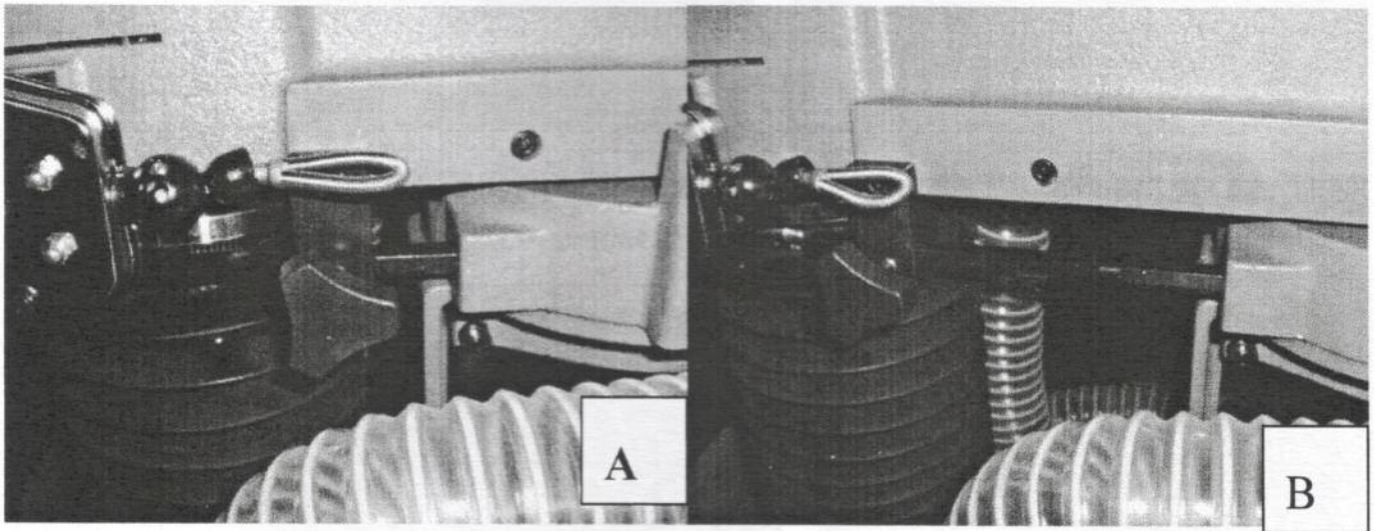
1. Adjust stop pin in position.
2. To change the angle of the saw blade, loosen bevel clamp handle (B), pull out bevel index knob (A) and tilt saw blade and motor. For zero, 45° , and 90° left, release bevel index knob (A) and saw blade will index at each of these positions. Then



tighten bevel clamp handle (B). For saw blade angle between positive stop, set blade at desired angle on bevel scale (C) and tighten bevel clamp handle (B).

## **DANGER**

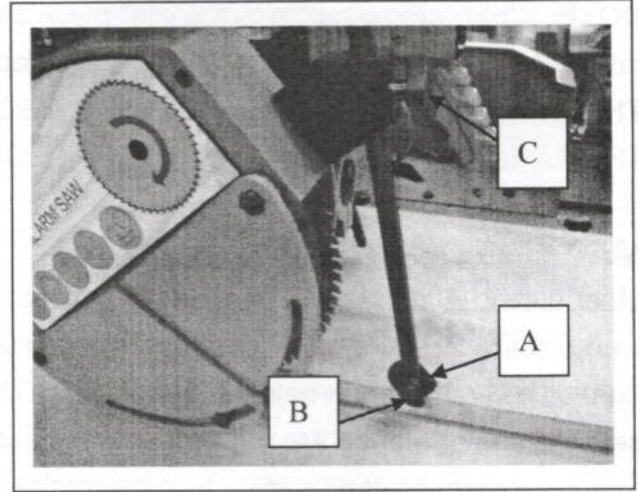
**WHEN YOU USE 45° OR 90° BEVEL CUT, YOU NEED TO ADJUST STOP PIN IN 45° (A) OR 90° (B) GROOVES POSITION AS SHOW; OTHERWISE IT WILL CAUSE SERIOUS INJUERY. THE BLADE WILL HIT THE COLUMN.**



## ANTI-KICKBACK FINGERS

During ripping operations, the splitter (A), must ride in the saw kerf and anti-kickback fingers (B) should be touching the workpiece to prevent kickback.

1. Set the saw up in the ripping position with the blade guard lowered on the in-feed side to act as a hold down.
2. Star a piece of material through the saw
3. **SHUT SAW OFF, AND DISCONNET FROM POWER SOURCE.**
4. Adjust the arm, so that it is vertical and the splitter (A) is in the saw kerf.
5. If the splitter (A), does not line up with the saw kerf, loosen knob (C), and position splitter (A) into saw kerf. Then tighten knob (C) against arm. The straight side of the splitter should be toward the blade, and the anti-kickback fingers should rest on the work piece.

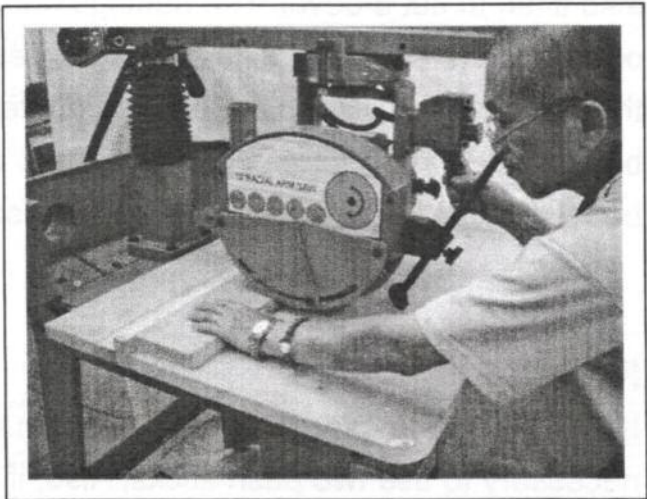


**NOTE:** The clamp knob for arm must be tight. Move arm front to back while tightening clamp knob with other hand to be sure clamp is firmly seated and tight.

6. Pull backward on the workpiece to determine if the anti-kickback fingers bite into the material and prevent further backward movement. If necessary, readjust height of arm.

## MACHINE USE CROSS - CUTTING

Cross-cutting consists of supporting the workpiece against the fence and pulling the saw blade through the material at right angles to it. When cross-cutting, the track arm should be index at "0" and the track arm clamp handle tightened. The fence should be clamped between the table boards. The saw blade is to be to the left and behind the fence. The workpiece is placed on the table and butted against the fence. The saw blade should be clear of the fence and table when the machine is turned on. Then the saw blade is lowered until it lightly cuts into the table surface. The operator should position himself a little to the left of the machine for better visibility while cutting. Pull the saw blade through the work, just far enough to cut it off, and return the saw blade to its starting position. Turn tool off, and wait for the blade to stop before touching the cut-off piece. The operator should always be sure to return the cutter-head carriage to the full rear position after each cross-cut operation.

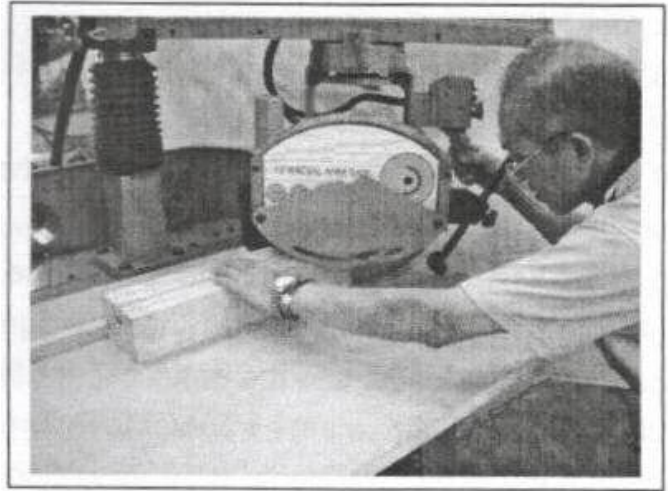


**NOTE: When cross -cutting material more than 1" thick, the fence must be positioned immediately behind the fixed front table board.**

**THE OPERATOR MUST ALWAYS BE CONSCIOUS OF WHERE HIS HANDS ARE; THAT THEY ARE CLEAR OF THE BLADE AND HOLDING THE WORKPIECE FIRMLY.**

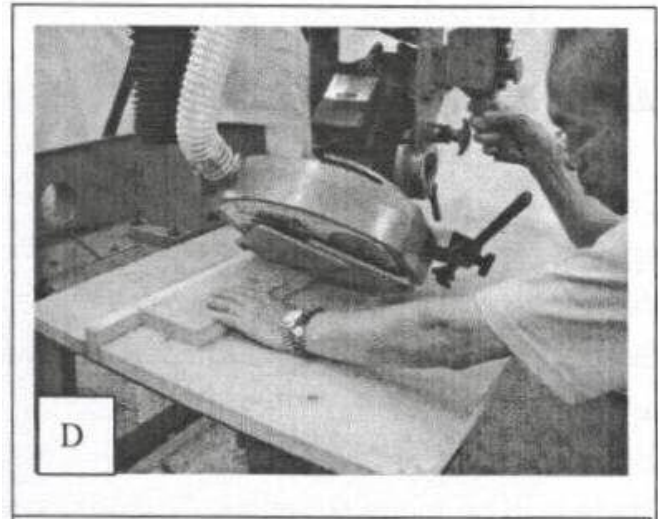
## **MACHINE USE MITER CUTTING**

Miter cutting is similar to cross-cutting except the workpiece is cut off at an angle (up to 45° right or left) rather than being cut off square. The settings and operation are performed in the same manner as crosscutting except that the track arm is first positioned to the desired angle on the miter scale before it is clamped in place. The operator should position the hand holding the workpiece on the opposite side to the direction of the miter so the blade is pulled through the workpiece and away from the hand, show a typical miter cutting operation on the radial saw.



## **BEVEL CUTTING**

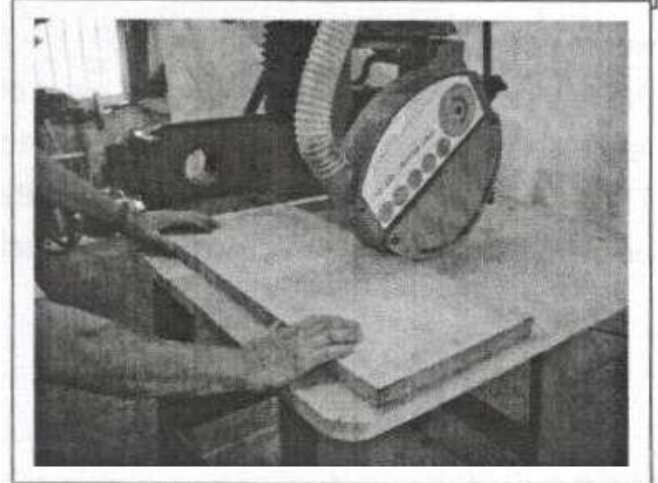
Bevel cutting is performed in the same manner as miter cutting except the saw blade is also tilted to cut a bevel. The settings and operation are similar to miter cutting except that the blade is first tilted to the desired angle on the bevel scale before it is clamped in place. Show a bevel cutting (D) operation on the radial saw.



## **RIPPING**

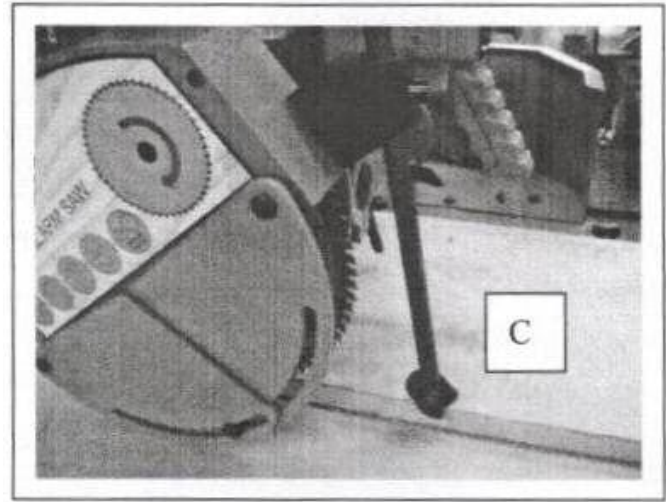
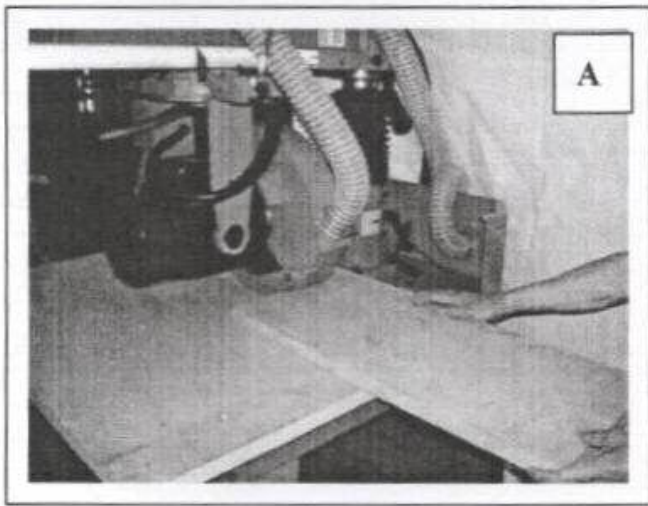
### **IMPORTANT:**

In certain applications it may be necessary to use two push sticks, also, if a push stick or other feeding device is necessary to assist in the feeding of material, make certain it is conveniently located so it may be reached easily without having to stretch or reach near the blade. Ripping involves making a lengthwise cut through a board along the grain. When ripping, the track arm is clamped at “0” on the miter scale. The yoke is then positioned and clamped so that the blade is parallel to the fence in either the inboard or outboard position. When feeding the material, one edge rides against the fence while the flat side of the board rests on the table. The guard should be lowered on the in-feed side until it almost touched the workpiece, as show in (A), to act as a hold down. The splitter and



anti-kickback fingers (C) should be adjusted as described under the section **“ADJUSTING SPLITTER AND ANTI-KICKBACK FINGERS”** in this manual. The operator hands should always be well away from and to the side of the blade. When ripping narrow work, always use a push stick to push the work between the fence and blade. The workpiece must have one straight edge to follow the fence. If board is bowed, place hollow side down. The cutting-head clamp knob should be securely tightened for all ripping operations.

**!WARNING THE MATERIAL MUST NEVER BE FEED INTO THE OUTFEED END OF THE BLADE GUARD.**



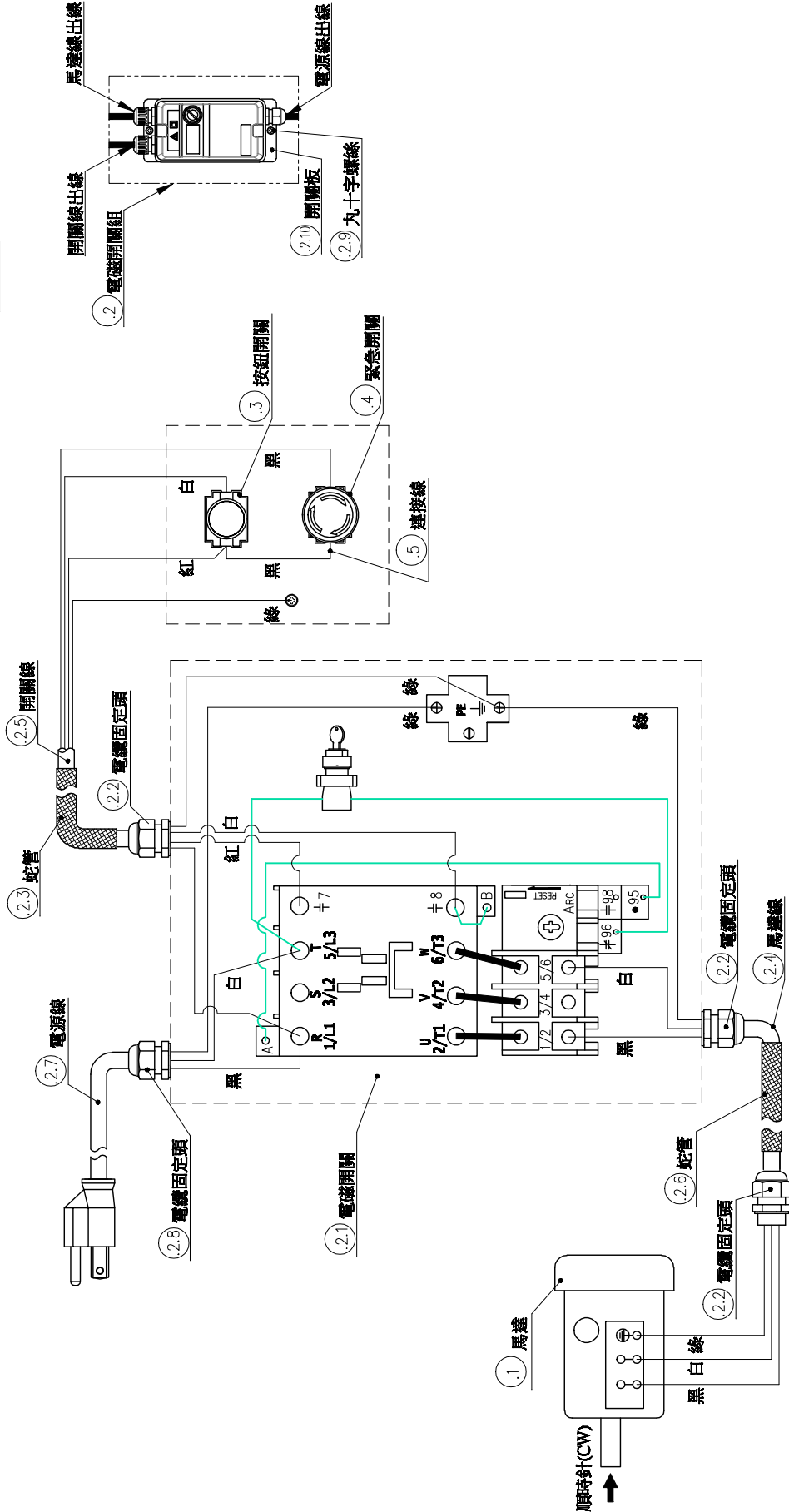
### **OUT-RIPPING**

Out-ripping involves all of the general conditions stated above. The yoke is clamped at right angle to the track arm with the blade guard facing the front of the machine. The cutting-head is positioned on the out-rip scale to the desired setting and clamped in position. The work piece is fed from the left side of the saw, shows a typical out-ripping operation on the radial saw.

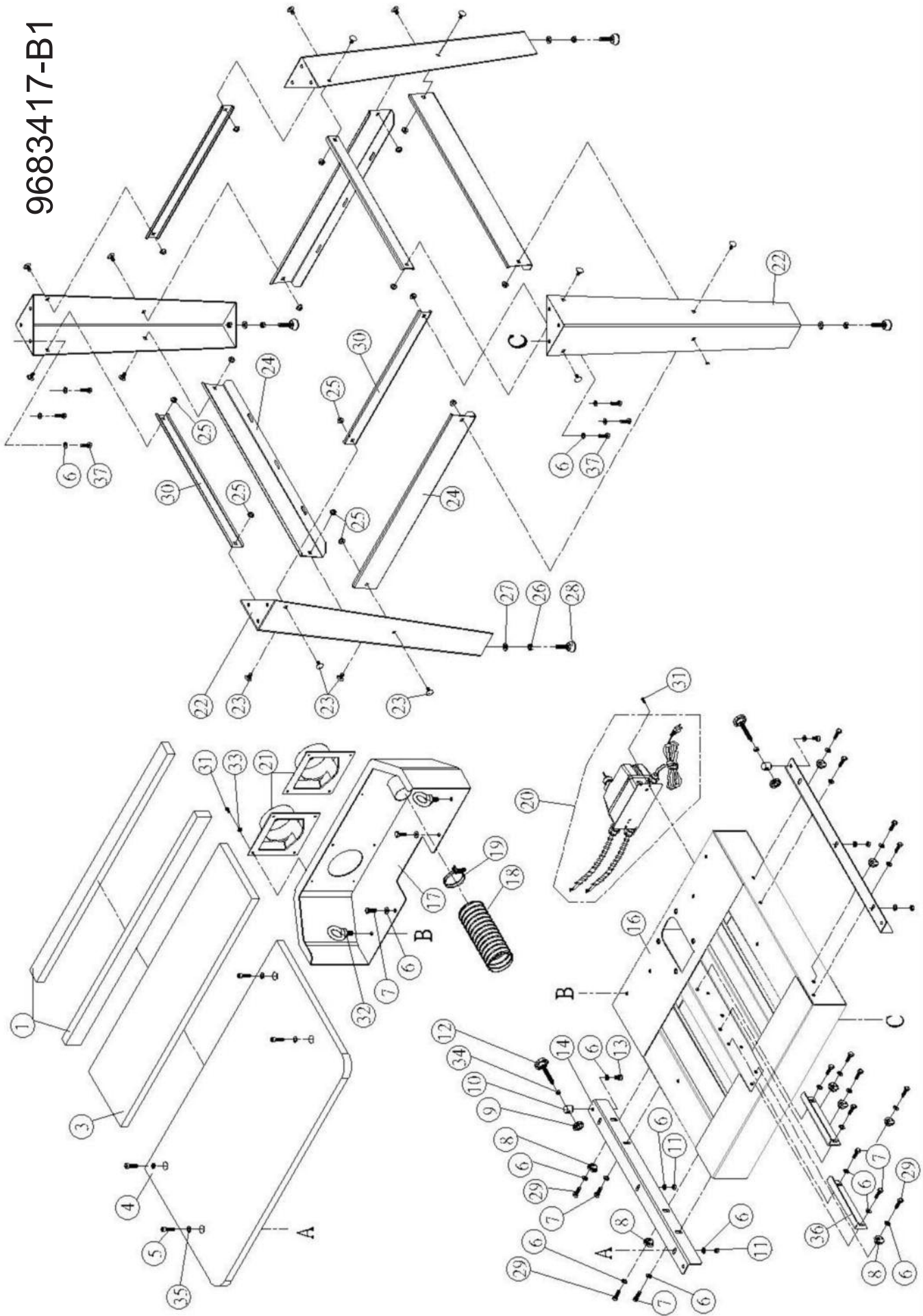
### **IN-RIPPING**

In-ripping involves all of the general stated under RIPPING. The yoke is clamped at right angle to the track arm with the blade guard facing the rear of the machine. The cutting-head is position on the in rip scale to the desired and clamped in position. The workpiece is fed from the right side of the saw, show a typical in-ripping operation on the radial saw.

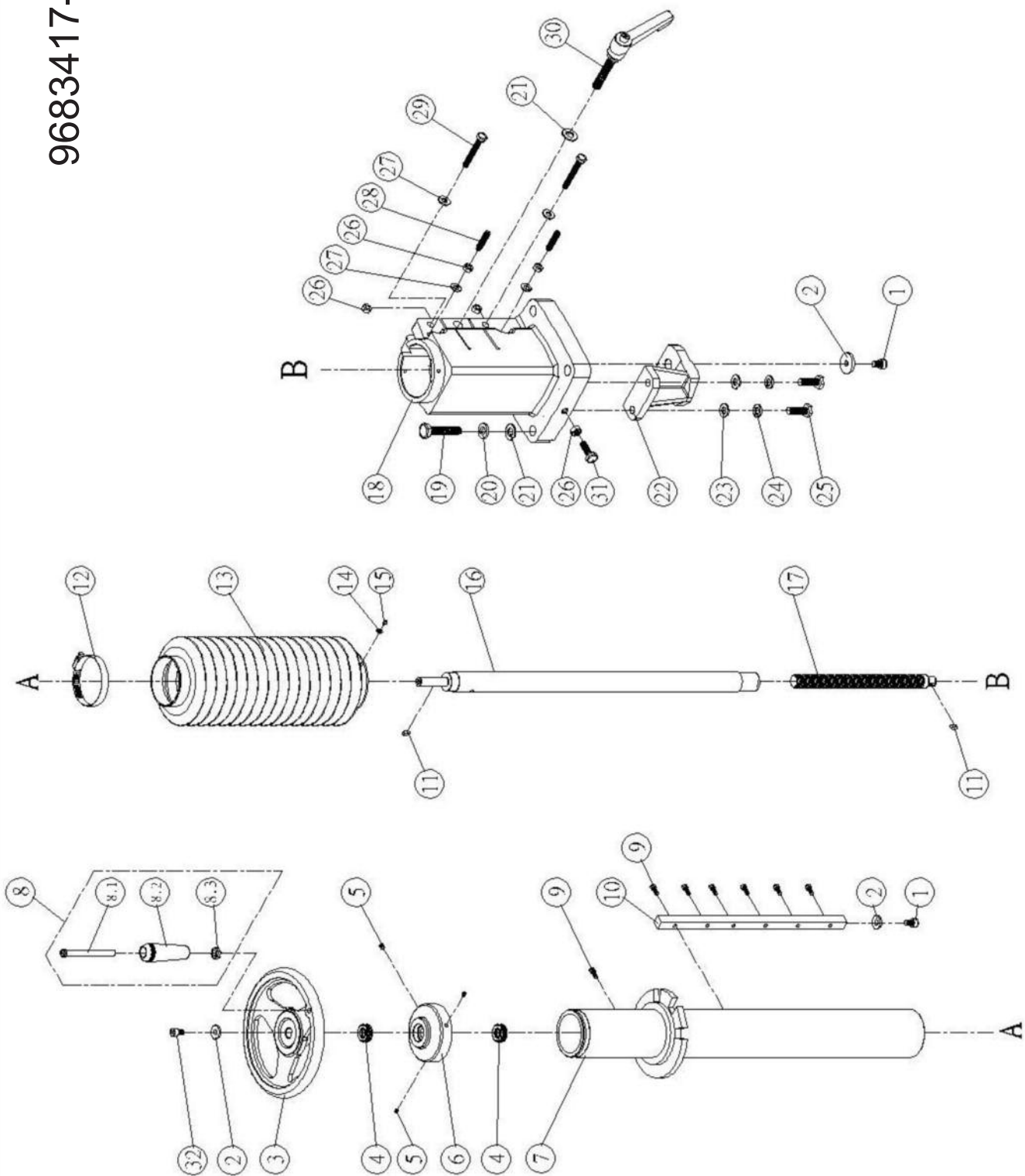
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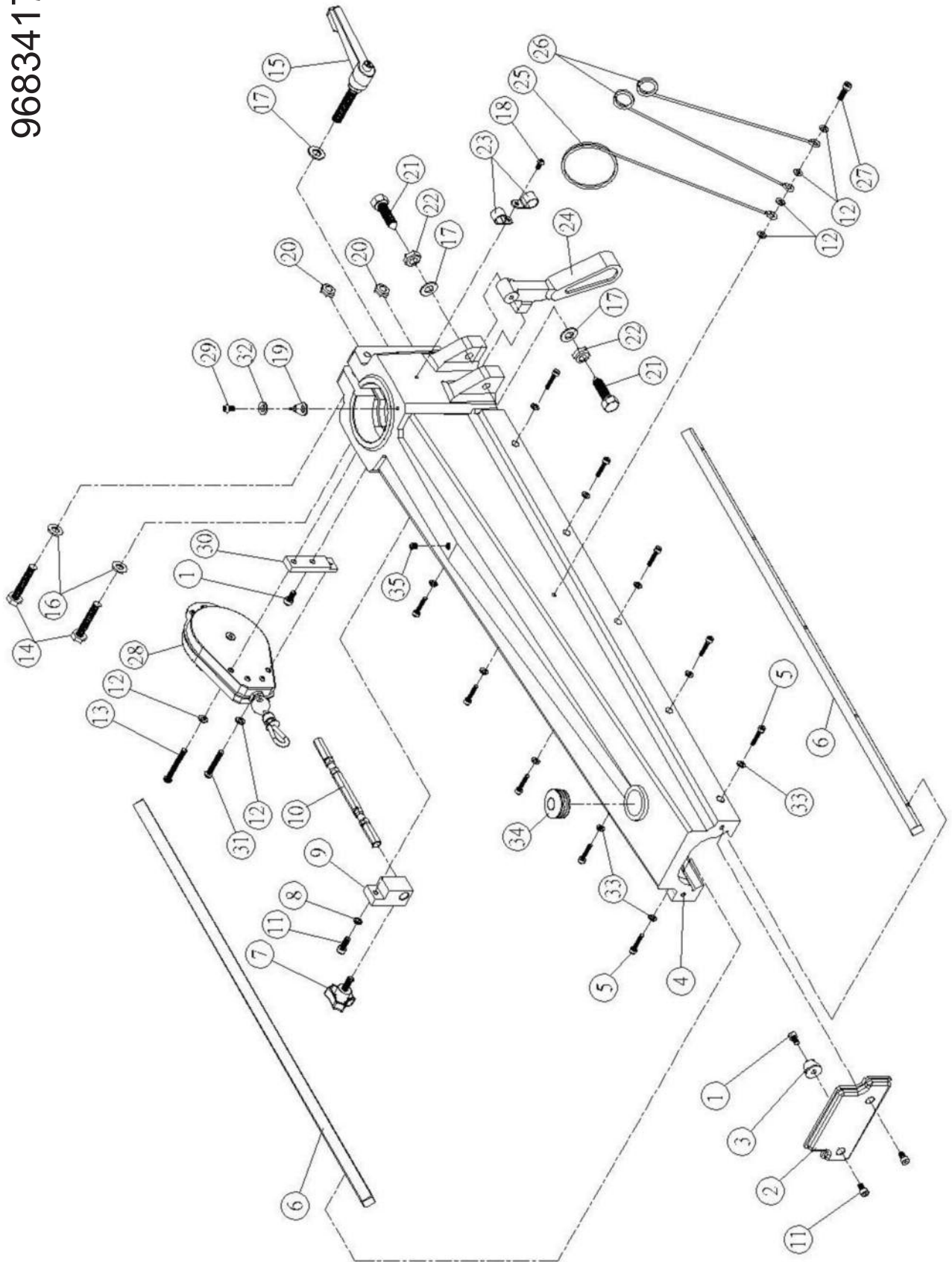
9683417-B1



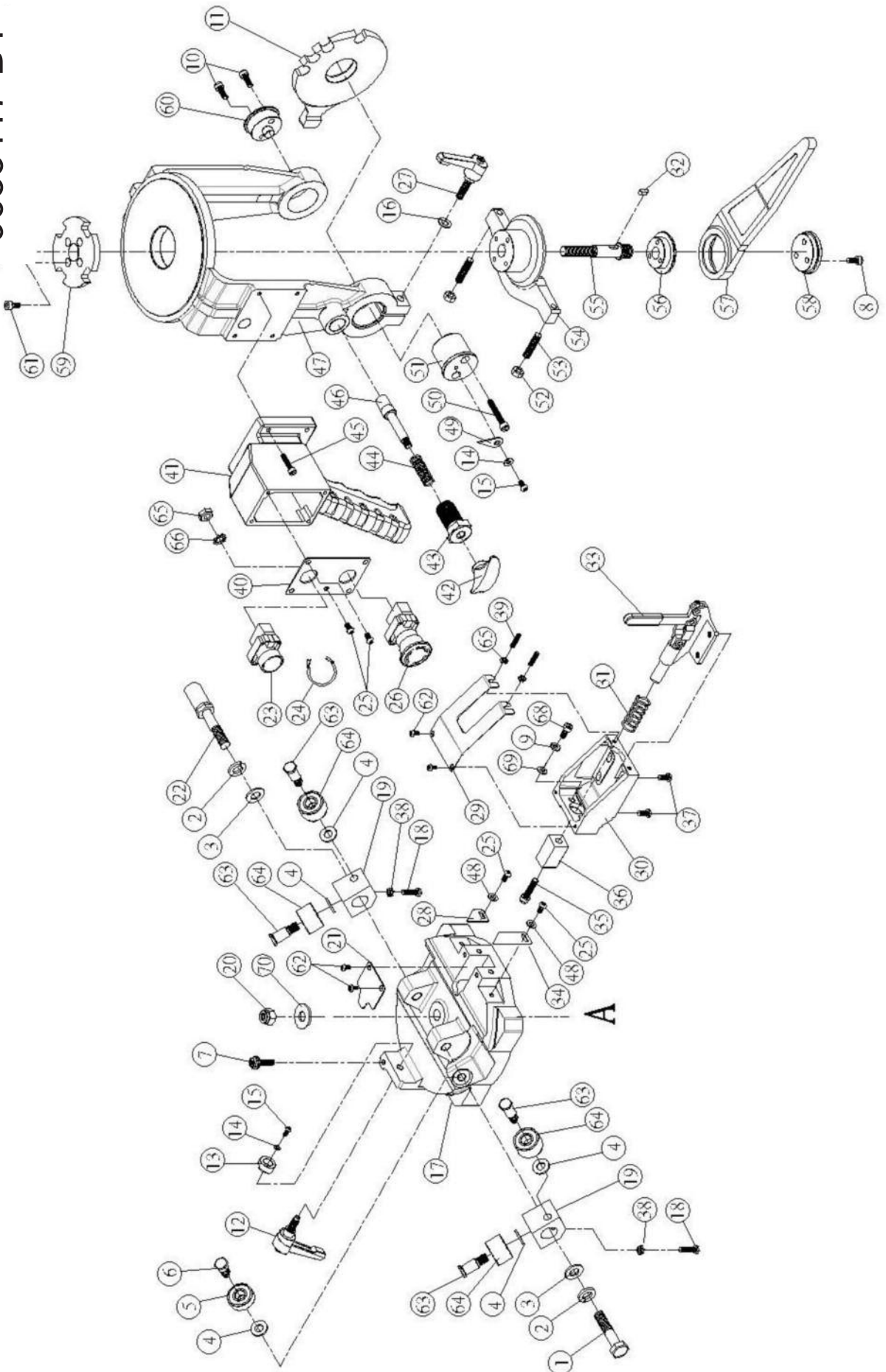
9683417-B2



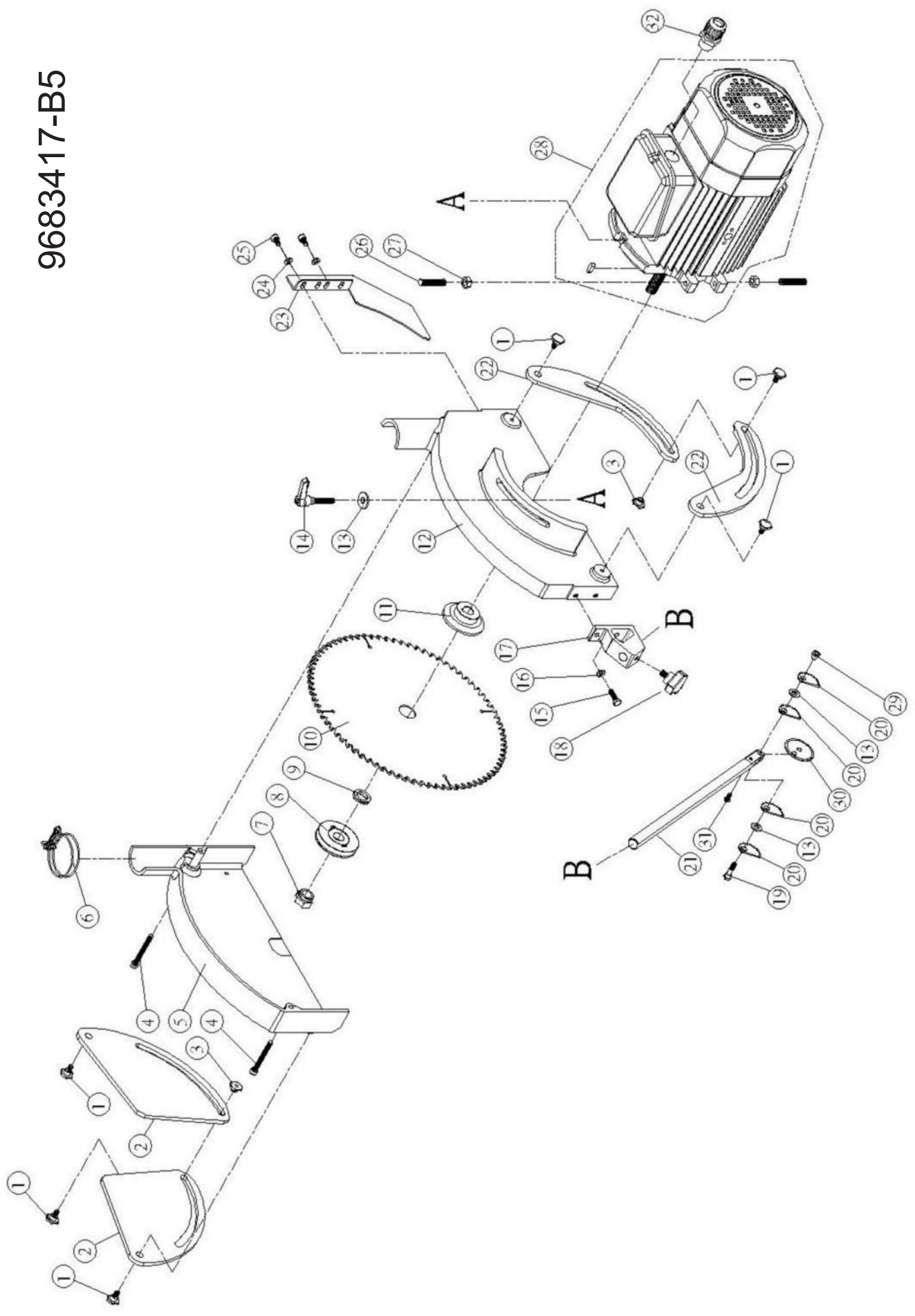
9683417-B3



9683417-B4



9683417-B5



## 9683417-B1

NO.	PARTS NO.	DESCRIPTION	SPECIFICATION	QTY
1	71011009	Wood table		2
3	71011007	Wood table		1
4	71011023	Main table		1
5	50102013	Cap screw	M8*1.25P*30L	4
6	50301102	Washer	8.2*16*1t	36
7	50101064	Hex screw	M8*1.25P*16L	10
8	71011015	CAM bushing		4
9	14031010	Stop		2
10	71011018	Stop holder		2
11	50201019	Hex nut	M8*1.25P	4
12	14031009	Knob		2
13	50102018	Cap screw	M8*1.25P*12L	2
14	71011024	Table rest bar		2
16	71011026	Body		1
17	71011013	Chute		1
18	71011012	Flue pipe		1
19	71011016	Clamp		1
20	7101160B	Magnetic controller set		1
21	34011020	Dust chute		2
22	71011001	Main stand leg		4
23	50160012	Carriage bolt	5/16" -18UNC*5/8" L	16
24	71011002	Lower tie bar		4
25	50256002	Hex nut	5/16" -18UNC	16
26	50201016	Hex nut	M10*1.5P	4
27	50301085	Washer	10*20*2.0t	4
28	71011017	Leveling foot		4
29	50101034	Hex screw	M8*1.25P*25L	8
30	71011003	Upper tie bar		4
31	50104014	Round head screw	M5*0.8P*10L	10
32	50125001	Eye bolt	M8*1.25P*15L	4
33	50301107	Washer	5*12*1t	8
34	50251014	Hex nut	3/8" -16UNC	2
35	50301014	Washer	8.5*20*3t	4
36	71011025	Table rest bar		2
37	50101073	Hex screw	M8*1.25P*20L	12

## 9683417-B2

NO.	PARTS NO.	DESCRIPTION	SPECIFICATION	Q'TY
1	50102010	Cap screw	M8*1.25P*16染黑	2
2	50301084	Washer	8*30*3染黑	3
3	71012006	Hand wheel		1
4	50503003	Bearing	51102滾珠-15*28*9t)	2
5	50103054	Set screw	M6*1.0P*6L(前端壓花)染黑	3
6	71012005	Upper cover		1
7	71012010	Column		1
8	34013101	Handle set		1
8.1	34013024	Screw		1
8.2	34013021	Handle		1
8.3	50251006	Hex nut	3/8" -16UNC	1
9	50102017	Cap screw	M5*0.8P*12L	7
10	71012004	Guide beam		1
11	50604005	Key	5*5*12L	2
12	71012009	Clip		1
13	71012007	Rubber coiler		1
14	50301107	Washer	5*12*1t	4
15	50104047	Round head screw	M5*0.8P*8L	4
16	71012011	Location sleeve		1
17	71012001	Lead screw		1
18	71012002	Column base		1
19	50101041	Hex screw	M12*1.75P*55L	4
20	50302009	Spring washer	M12	4
21	50301075	Washer	12*23*2t	5
22	71012003	LEAD SCREW HOLDER		1
23	50301085	Washer	10*20*2.0t	2
24	50302010	Spring washer	M10	2
25	50101050	Hex screw	M10*1.5P*30L	3
26	50201019	Hex nut	M8*1.25P	5
27	50301102	Washer	8.2*16*1t	4
28	71012008	Postitional screw		2
29	50101039	Hex screw	M8*1.25P*55L	2
30	50114041	Universal handle	M12*1.75P*60L	1
31	50101046	Hex screw	M8*1.25P*30L	1
32	50102012	Cap screw	M8*1.25P*20L	1

NO.	PARTS NO.	DESCRIPTION	SPECIFICATION	QTY
1	50102023	Cap screw	M6*1.0P*10L	2
2	71013014	Arm front cover		1
3	71013003	Front suspension piece		1
4	71013013	Arm		1
5	50102021	Cap screw	M5*0.8P*25L	10
6	71013005	Rail beam		2
7	50164003	Knob	M8*1.25P*19L	1
8	50302007	Spring wasehr	M6	1
9	71013011	Depth bar holder		1
10	71013012	Depth bar		1
11	50102006	Cap screw	M6*1.0P*16L	3
12	50301087	Washer	6*12*1t	6
13	50104063	Round head screw	M6*1.0P*50L	1
14	50101038	Hex screw	M10*1.5P*55L	2
15	50114041	Universal handle	M12*1.75P*60L	1
16	50301085	Washer	10*20*2.0t	2
17	50301075	Washer	12*23*2t	3
18	50104059	Round head screw	M5*0.8P*12L	1
19	35011016	Pointer		1
20	50201016	Hex nut	M10*1.5P	2
21	71013016	Position screw		2
22	50201022	Hex nut	M12*1.75P	2
23	51110007	Wire clamp	ACC-5 (15mm)	2
24	71013004	Location handle		1
25	71013006	Coil pipe support , large		1
26	71013010	Coil pipe support , small		2
27	50102007	Cap screw	M6*1.0P*20L	1
28	71013008	Return coiler		1
29	50104018	Round head screw	M4*0.7P*8L	1
30	71013007	Return coiler base		1
31	50104069	Round head screw	M6*1.0P*35L	1
32	50301078	Washer	4.2*8*0.8t	1
33	50302006	Spring wasehr	M5	10
34	23011021			1
35	50103005	Set screw	M8*1.25P*6L	1

## 9683417-B4

NO.	PARTS NO.	DESCRIPTION	SPECIFICATION	QTY
1	50101066	Hex screw	M12*1.75P*50L	1
2	50302009	Spring washer	M12	2
3	50301075	Washer	12*23*2t	2
4	50301085	Washer	10*20*2.0t	8
5	50501009	Bearing	6201-2RS	4
6	71014023	Bearing holder		4
7	50120004	Hex screw	M6*1.0P*20L	1
8	50102023	Cap screw	M6*1.0P*10L	5
9	50302007	Spring washer	M6	2
10	50102008	Cap screw	M6*1.0P*25L	2
11	71014005	Angle ring		1
12	50114042	Universal handle	M8*1.25P*24L	1
13	71014028	Contact collar		1
14	50301078	Washer	4.2*8*0.8t	2
15	50104018	Round head screw	M4*0.7P*8L	2
16	50301010	Washer	8.2*16*1t	1
17	71014039	Motor bracket cover		1
18	50101053	Hex screw	M6*1.0P*25L	2
19	71014024	Bearing hang block		2
20	50202016	Hex nut	M12*1.75P	1
21	71014041	Cover plate		1
22	71014026	Suspension rod		1
23	51116003	On/off switch	22mm-1a(480V/10A)	1
24	71014027	Wire		1
25	50104014	Round head screw	M5*0.8P*10L	7
26	51116004	Emergency stop	22mm-1b(480V/10A)	1
27	50114043	Universal handle	M8*1.25P*30L	1
28	71014022	Pointer		1
29	71014043	Cover		1
30	71014042	Base		1
31	71014020	Spring		1
32	50604005	Key	5*5*12L	1
33	71014044	Quick Locker		1
34	71014021	Pointer, long		1
35	50102013	Cap screw	M8*1.25P*30L	1
36	71014034	Position block		1
37	50207020	Round head screw	M8*1.25P*12L	4
38	50201013	Hex nut	M6*1.0P	3
39	50103062	Set screw	M5*1.0P*30L	2
40	71014017	On/Off switch cover		1
41	71014016	Handle base		1
42	71014008	position lock knob		1
43	71014006	position lock collar		1
44	71014009	Spring		1
45	50102021	Cap screw	M5*0.8P*25L	4
46	71014007	Position rod		1
47	71014038	Motor hang bracket		1

## 9683417-B4 (continued)

NO.	PARTS NO.	DESCRIPTION	SPECIFICATION	QTY
48	50301107	Washer	5*12*1t	2
49	35011016	Pointer		1
50	50102047	Cap screw	M6*1.0P*40L	2
51	71014003	Front Central shaft		1
52	50201019	Hex nut	M8*1.25P	2
53	50103059	Set nut	M8*1.25P*39L	2
54	71014032	Adjusting Block		1
55	71014012	Lock rod		1
56	71014011	Lock handle upper base		1
57	71014002	Lock handle		1
58	71014010	Lock handle lower base		1
59	71014040	Angle plate		1
60	71014037	Rear central shaft		1
61	50102007	Cap screw	M6*1.0P*20L	4
62	50104044	Round head screw	M5*0.8P*6L	4
63	71014031	Bearing lock screw		4
64	50501055	Bearing	5201-ZZ	4
65	50201021	Hex nut	M5*0.8P	3
66	50303003	Lock washer	M5	1
68	50102007	Cap screw	M6*1.0P*20L	2
69	50301087	Washer	6*12*1t	2
70	50351062	Washer	1/2"*28*2.2t	1

## 9683417-B5

NO.	PARTS NO.	DESCRIPTION	SPECIFICATION	QTY
1	71015009	Screw		6
2	71015008	Outer blade guard		2
3	71015011	Nut		2
4	50102045	Cap screw	M6*1.0P*45L	2
5	71015005	Chute guard-left		1
6	71011016	Clamp		1
7	71015003	Blade lock nut		1
8	71015002	Laser disc		1
9	71015017	Bushing		1
10	71015016	12" blade		1
11	71015001	Flange		1
12	71015023	Chute guard-right		1
13	50301102	Washer	8.2*16*1t	3
14	50114044	Universal handle	M8*1.25P*35L	1
15	50101065	Hex screw	M6*1.0P*20L	2
16	50302007	Spring washer	M6	2
17	71015024	Anti-kick block base		1
18	50164002	Knob	M8*1.25P*12L	1
19	71015014	Screw		1
20	71015012	Anti-kick teeth		4
21	71015007	Anti-kick rod		1
22	71015010	inner blade guard		2
23	71015006	Split blade		1
24	50301087	Washer	6*12*1t	2
25	50102023	Cap screw	M6*1.0P*10L	2
26	50103064	Set screw	M8*1.25P*34L	2
27	50201019	Hex nut	M8*1.25P	2
28	7101550A	Motor assy		1
29	71015019	Nut		1
30	71015013	front split blade		1
31	50104059	Round head screw	M5*0.8P*12L	1
32	51104010	Strain relief	N-MGN20-15B-STM20*1.5P	1

## NORSE WARRANTY

NORSE by C.H. Hanson warrants their products to be free of defects in material or workmanship. This warranty does not cover defects due directly or indirectly to misuse, abuse, normal wear and tear, failure to properly maintain the product, heated, ground or otherwise altered, or used for a purpose other than that for which it was intended.

The warranty does not cover expendable and/or wear part (i.e. v-belts, screws, abrasives, jaws), damage to tools arising from alteration, abuse or use other than their intended purpose, packing and freight. The duration of this warranty is expressly limited to the terms noted below beginning from the date of delivery to the original user.

The NORSE branded items carry the following warranties on parts:

All NORSE branded Tools and Accessories 1 YEAR

The obligation of NORSE by C.H. Hanson is limited solely to the repair or replacement, at our option, at its factory or authorized repair agent of any part that should prove inoperable. Purchaser must lubricate and maintain the product under normal operating conditions at all times. Prior to operation become familiar with product and the included materials, i.e. warnings, cautions and manuals.

### **Failure to follow these instructions will void the warranty.**

This warranty is the purchaser's exclusive remedy against C. H. Hanson for any inoperable parts in its product. Under no circumstances is C. H. Hanson liable for any direct, indirect, incidental, special or consequential damages including loss of profits in any way related to the use or inability to use our products. This warranty gives you specific legal rights which may vary from state to state.

### **SERVICE & REPAIR**

1. If a NORSE product requires a repair or warranty service **DO NOT** return the product to the place of purchase.
2. All warranty related work must be evaluated and approved by NORSE.
3. Prior to returning any item the user must obtain factory approval and a valid RGA number.
4. For instructions and RGA number call toll free (800) 827-3398.



NORSE - a C.H. Hanson brand  
2000 N. Aurora Rd., Naperville, IL 60563 U.S.A.  
or call: 1-800-827-3398