

# Ripsaw XL4

## *Owner's manual*

See assembly pictures online at  
<http://www.rip-saw.net/xl4assembly.html>

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# *Table of Contents*

Safety instructions .....	1
Assembly	
RIPSAW XL4 assembly .....	2-4
Blades	
Changing blades .....	5
Tracking blades	
Drive wheel .....	6
Idler wheel .....	6
Sawing wood .....	7
Warranty / Guarantee .....	8

## *Safety instructions*

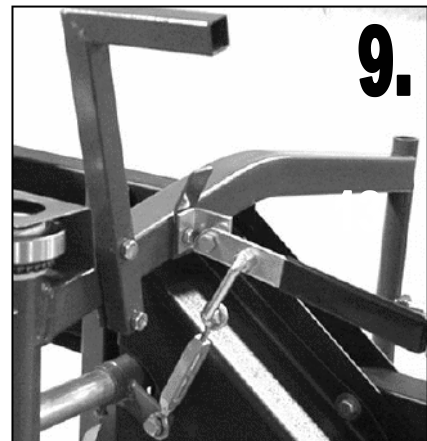
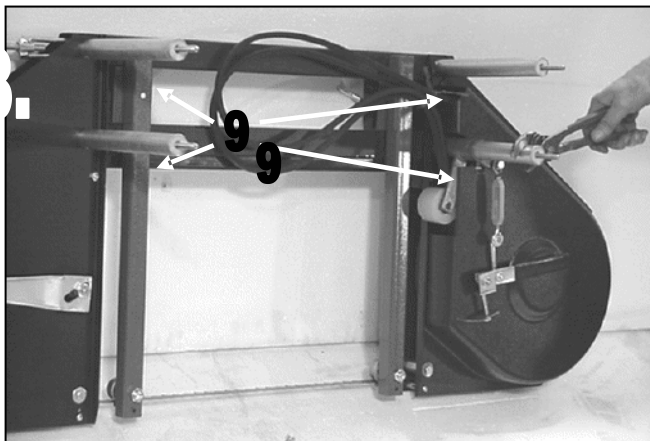
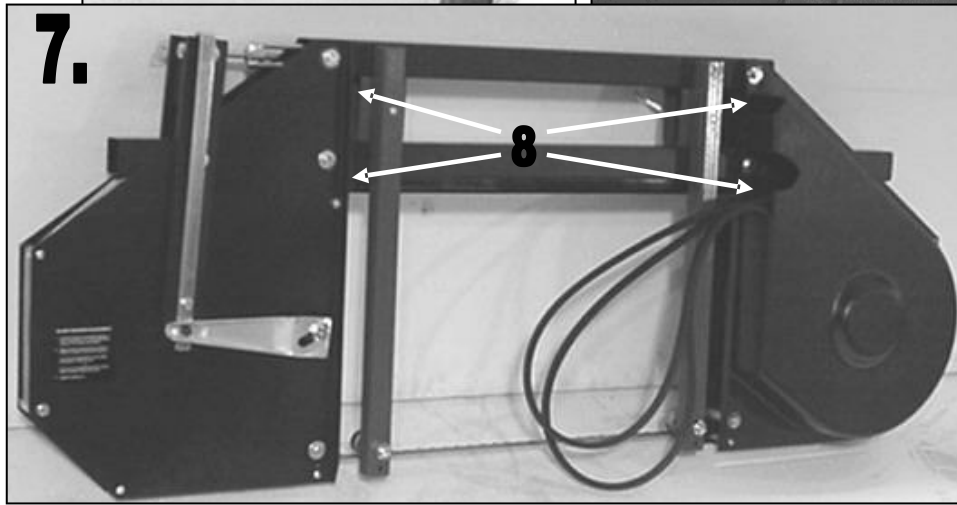
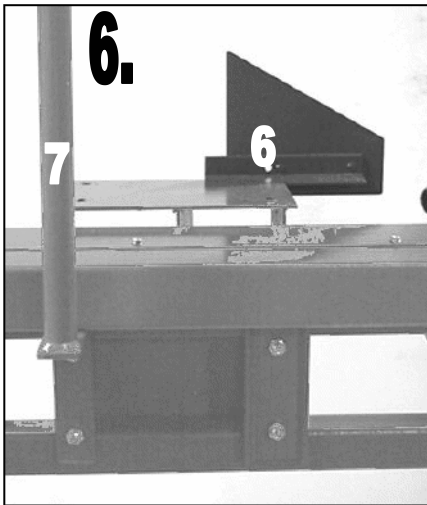
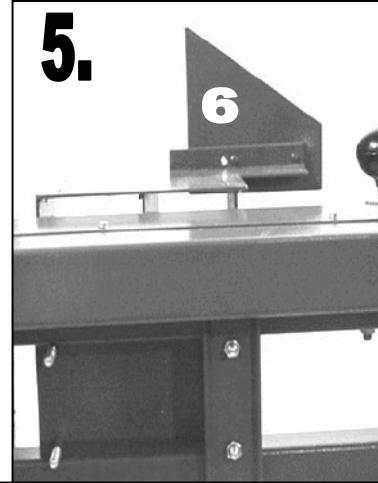
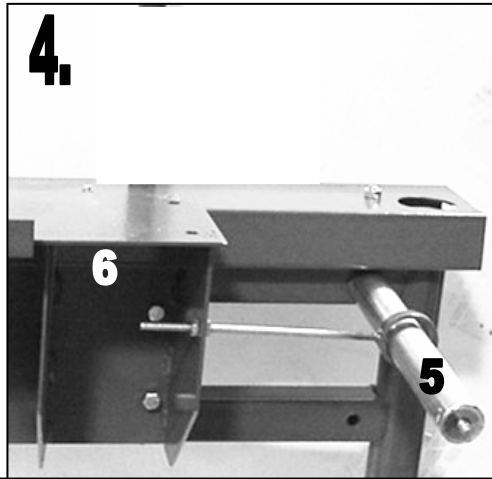
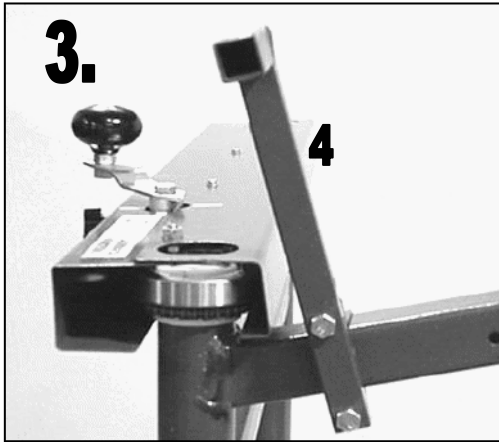
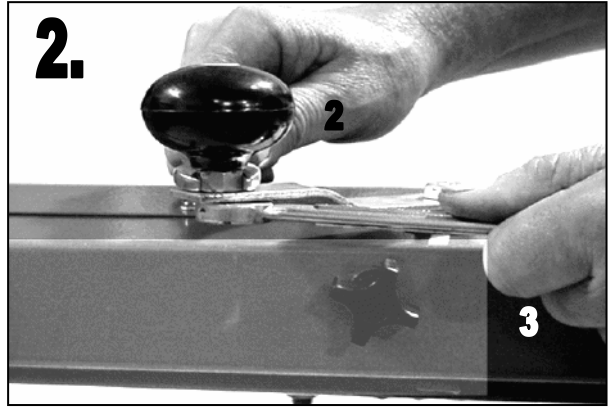
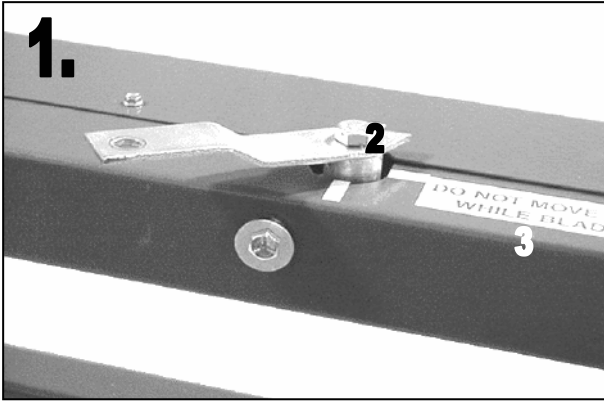
Proper operation of The **RIPSAW XL4** is essential to avoid serious personal injury to the operator and bystanders. Keep hands, feet, face, and clothing away from all moving parts of the saw at **ALL TIMES**.

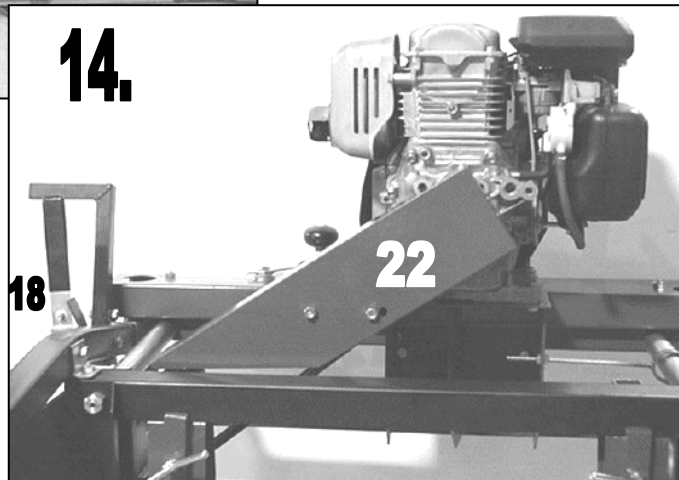
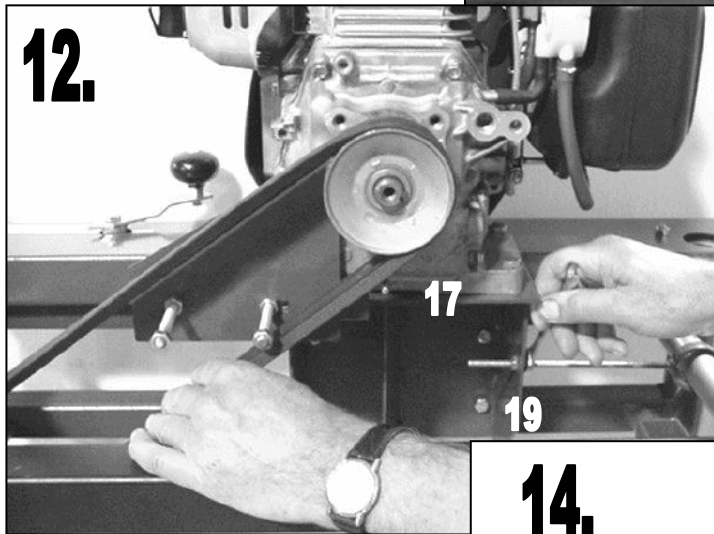
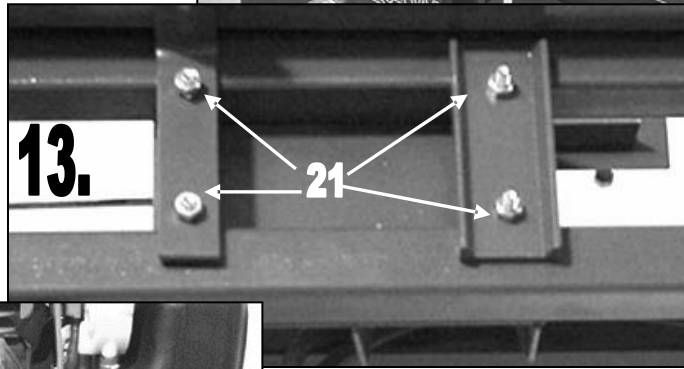
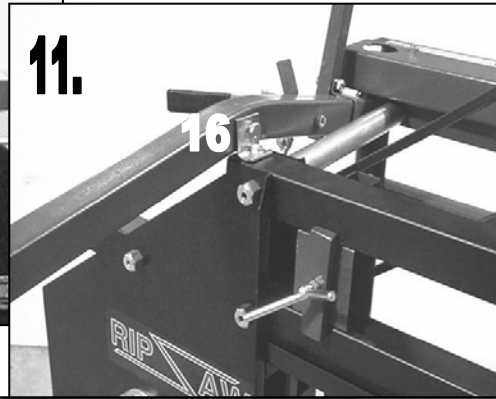
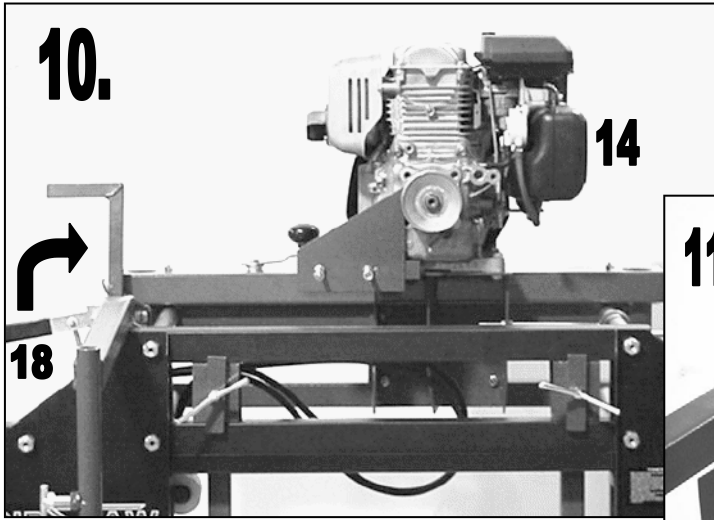
Read through the entire manual thoroughly. If you are uncertain of any procedures in this manual, please consult Better Built Corporation for assistance. (978) 657-5636, email: Info@ripsaw.com.

1. Always wear eye and ear protection and gloves while handling blades and/or operating the **RIPSAW XL4**.
2. Before starting the engine, make sure that the log is secure and that it will not move while you are pushing the saw through it.
3. The use of the **RIPSAW XL4** is a one-person operation. If you should require assistance in moving logs or cut lumber, ensure that the person is wearing protective equipment and keep at a safe distance from the sawmill while it is in operation.
4. For re-fueling gasoline powered sawmills, extinguish all smoking materials, stop the engine and allow it to cool.
5. Keep all spectators at least 20 feet away from the milling operation.

## *Assembly instructions*

1. ASSEMBLE CARRIAGE USING CARRIAGE ASSEMBLY INSTRUCTIONS.
2. INSTALL KNOB INTO CARRIAGE CRANK LEVER AS SHOWN IN PICTURE #2
3. REPLACE 1/4-20 BOLT AND WASHER WITH PLASTIC KNOB AS SHOWN IN PICTURES 1 AND 2.
4. INSTALL "L" SHAPED HANDLE AS SHOWN IN PICTURE #3
5. INSERT SPACER TO ALIGN MOTOR BASE AS SHOWN IN PICTURE #4
6. INSTALL MOTOR BASE AS SHOWN IN PICTURE #4 AND 5
7. INSTALL UPRIGHT HANDLE AS SHOW IN PICTURE #6
8. LAYING SAWMILL FLAT, REMOVE (4) BOLTS AS SHOWN IN PICTURE #7
9. INSTALL (4) SPACERS AS SHOWN IN PICTURE #8. BE SURE TO KEEP LOWER RIGHT SPACER INSIDE BELTS.
10. TIGHTEN SPACERS USING A PAIR OF CHANNEL LOCKS OR PLIERS - PICTURE #8
11. POSITION SAWMILL ONTO CARRIAGE BY ALIGNING SPACERS WITH HOLES IN CARRIAGE.
12. INSTALL FASTENING NUTS AND TIGHTEN SECURELY.
13. INSTALL CLUTCH LEVER PIVOT BRACKET BOLT INTO CARRIAGE FRAME - PICTURE #9
14. INSTALL ENGINE - PICTURE #10 AND 14
15. SECURE ENGINE WITH ENGINE BOLTS
16. INSTALL SECURITY BRACKET - PICTURE #11
17. INSTALL BELTS. (NOTE LOCATION OF PIN MARKED "17" AND BELT POSITION)
18. ADJUST BELT TENSION BY ENGAGING OR MOVING ARM TO THE "UP" POSITION - PICTURE #10
19. ADJUST MOTOR MOUNT LOCATOR SCREW UNTIL BELT IS TIGHT - PICTURE #12
20. TIGHTEN LOCATOR NUTS - PICTURE #12
21. TIGHTEN MOTOR MOUNT NUTS - PICTURE #13
22. INSTALL BELT GUARD - PICTURE #14
23. SERVICE ENGINE AS INSTRUCTED IN ENGINE MANUFACTURER'S MANUAL.





## *Changing blades*

Wear gloves and eye protection while handling blades.

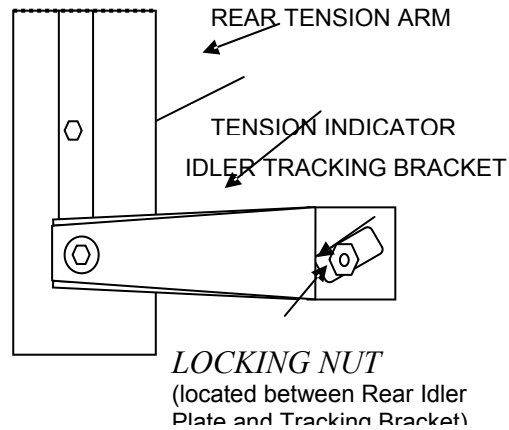
- 1.** Release blade tension. (Turn tension bolt counter-clockwise.)
- 2.** Remove cover nuts.
- 3.** Remove front tension arm, Drive cover and Idler cover.
- 4.** Slide blade toward front of saw and out of guide blocks.
- 5.** Slip blade over the edges of the bottom of the Drive and Idler wheels by tipping it up and outward.
- 6.** Rotate blade up and out of safety guard.
- 7.** To replace blade perform above procedures in reverse. Make sure that locating pins are through the holes in the front covers before installing and tightening cover knobs.
- 8.** Tighten the tension bolt until the tension indicator reaches the white line on the rear tension arm.

# Blade tracking

## Idler wheel...

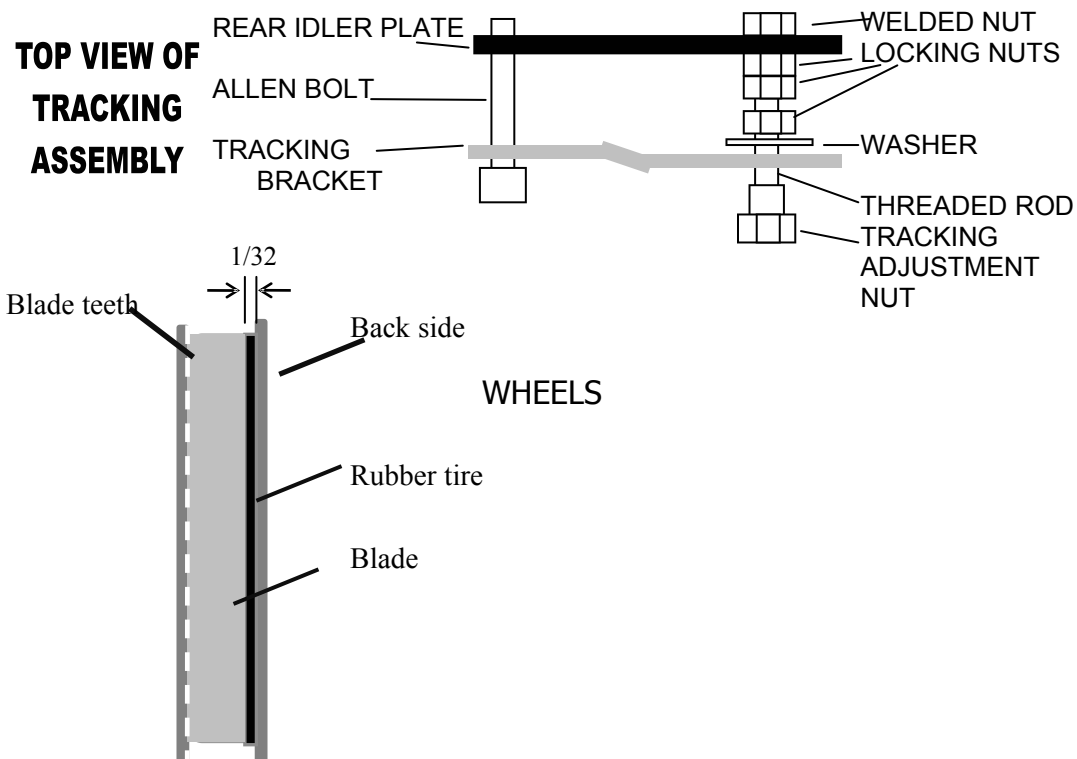
The tracking adjustment for the idler wheel is located on the rear side of the sawmill.

1. Loosen locking nut, using a 7/16" open-end wrench.
2. Make tracking adjustment using a 3/4" wrench by turning tracking nut clockwise to move blade backwards (towards you) and turning nut counter-clockwise to move blade forward. (Away from you) You will need to follow the tracking nut with the lock nut to achieve the proper results.
3. Tighten locking nut.



The smooth side of the blade should track with 1/32" of the rubber showing at the rear edge of the Idler wheel.

- a) Install blade
- b) Tighten blade slightly
- c) Rotate blade by hand, making adjustments as necessary.
- d) Jog (Start the engine and engage clutch momentarily) the saw while adjusting the idler wheel tracking bolt.
- e) Lock the idler tracking bolt by tightening the 1/4-20 nut against the washer which is against the tracking bracket.
- f)



## **RIPSAW XL4 OPERATING INSTRUCTIONS**

1. POSITION LOG ON CARRIAGE RAILS.
2. RAISE THE SMALLER END OF THE LOG TO MAKE THE CENTERLINE PARALELL TO THE RAILS.
3. INSERT LONG LOG CLAMP PINS (ONE AT EACH END OF LOG) SO THAT THEY ARE AGAINST THE LOG.
4. INSERT SHORT LOG CLAMP PINS AND LOG CLAMP SCREWS ON OPPOSITE SIDE OF LOG.
5. BE SURE ALL PINS ARE LOW ENOUGH SO THEY WILL NOT INTERFERE WITH BLADE WHILE CUTTING.
6. TIGHTEN LOG CLAMP SCREWS.
7. LOOSEN (3) CARRIAGE LOCKING SCREWS.
8. SET THE CUTTING DEPTH BY TURNING HEIGHT ADJUSTMENT HANDLE.
9. SET BLADE GUIDE WIDTH AS REQUIRED TO CLEAR SIDES OF LOG
10. TIGHTEN (3) CARRIAGE LOCKONG SCREWS AND CRANK LOCKING KNOB.
11. START ENGINE AND ENGAGE CLUTCH, ACCELEATE ENGINE TO DESIRED CUTTING SPEED
12. FEED SAW THROUGH LOG BY PUSHING ON CARRIAGE HANDLES.
13. AFTER COMPLETING CUT, DECELERATE ENGINE AND DISENGAGE CLUTCH.
14. REMOVE SLAB AND RETURN CARRIAGE TO THE START POSITION.
15. TURN LOG 90 DEGREES WITH CUT SIDE SQUARE AGAINST LONG LOG CLAMP PINS.
16. ELEVATE SMALL END OF LOG AS IN STEP 2.
17. POSITION SHORT LOG CLAMP PINS AND LOG CLAMP SCREWS AND TIGHTEN.
18. SET DEPTH OF CUT.
19. PROCEED TO MAKE SECOND CUT FOLLOWING STEPS 3 THROUGH 13.
20. AFTER COMPLETING CUT, REMOVE SLAB AND RETURN CARRIAGE TO THE START POSITION
21. IF THE LOG IS STILL LARGER THAN 20" WIDE OR IF YOU WANT FINISHED EDGES YOU MUST ROTATE THE LOG AS BEFORE AND MAKE ANOTHER SLAB CUT.
22. AFTER COMPLETING THIRD CUT, REMOVE SLAB AND RETURN CARRIAGE TO THE START POSITION
23. CLAMP AND CUT FOURTH SLAB
24. AFTER COMPLETING FOURTH CUT, REMOVE SLAB AND RETURN CARRIAGE TO THE START POSITION
25. SET THE DEPTH OF CUT FOR FINISHED LUMBER BY TURNING THE HEIGHT ADJUSTMENT HANDLE (1 FULL TURN EQUALS ¼ INCH OR 4 TURNS EQUALS 1 INCH.)
26. ADD ¼ TURN TO ALLOW FOR BLADE THICKNESS.
27. CHECK DEPTH WITH RULER AND MAKE ANY NECESSARY ADJUSTMENTS.
28. CHECK HEIGHT OF LOG CLAMP PINS AND MAKE ANY NECESSARY ADJUSTENTS
29. PROCEED TO CUT FINISHED LUMBER.

## ***Warranty***

### ***6 Month warranty on all RIPS AW XL4 parts and labor***

Every S.I.R. ***RIPS AW XL4*** is thoroughly inspected and tested before leaving the factory. Should any trouble develop with the saw or its components, please contact our office for further instructions. Returns will not be accepted without prior authorization. Upon the completion of any warranty work, the items repaired will be shipped back to you, freight prepaid.

The RIPS AW XL4 warranty does not apply under these conditions:

1. Repairs are necessary due to normal wear.
2. Repairs have been attempted or made by someone other than Better Built personnel.
3. The unit has been in an accident.
4. Misuse is evident. (Such as: overloading or operating beyond rated capacity)
5. The unit has been operated after partial failure.
6. The unit has been used with an improper accessory.

## ***Guarantee***

Each Ripsaw XL4 comes with a 30 day money back guarantee which does not include shipping costs and a 20% restocking charge. Southeastern Industrial Resources must be notified prior to return of goods. Failure to comply with this regulation will result in return refusal.