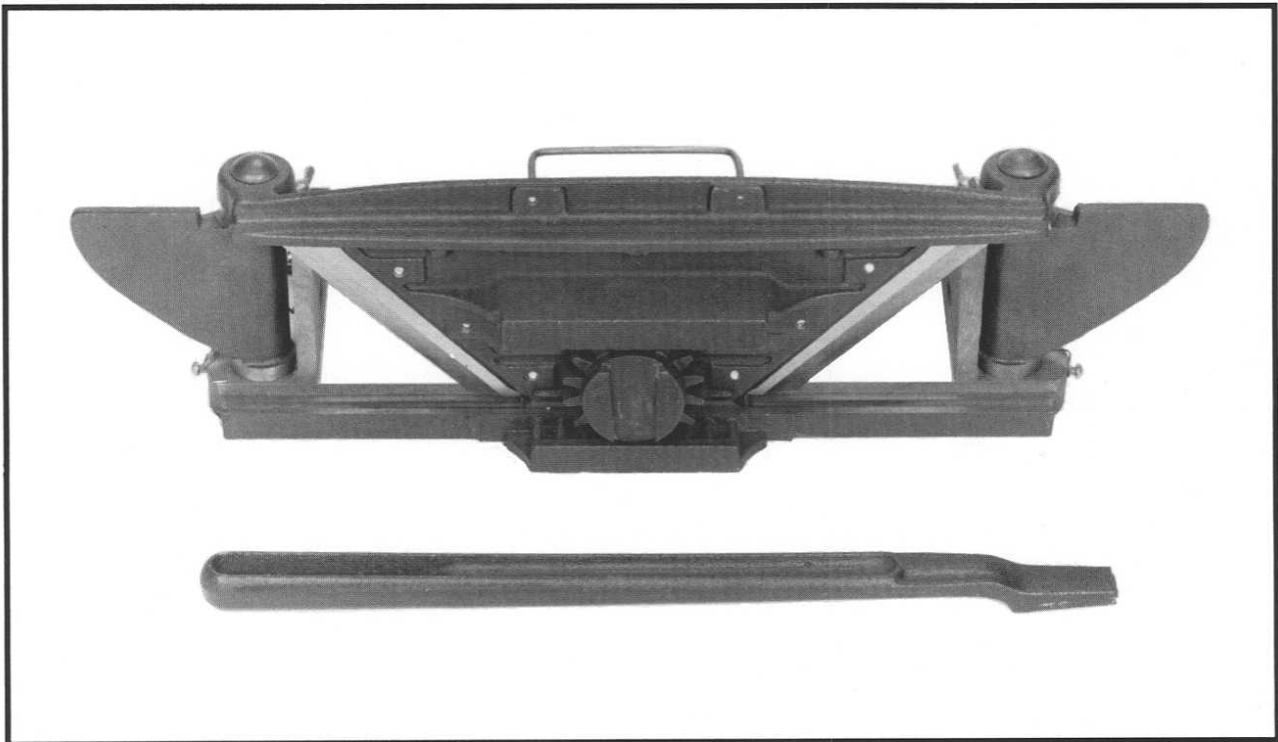




**MITER TRIMMER
MODEL G1690
INSTRUCTION MANUAL**



GRIZZLY IMPORTS, INC.

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REVISED NOVEMBER, 1993. PRINTED IN USA

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I. INTRODUCTION

We are proud to bring you the Model G1690 Miter Trimmer. The Model G1690 is part of Grizzly's large family of fine woodworking tools and machinery. When used according to the guidelines set forth in this manual, you can expect years of trouble-free, enjoyable operation and proof of Grizzly's commitment to customer satisfaction.

The Model G1690 Miter Trimmer is an excellent choice for producing sharp, clean, accurate miters on picture frames, molding, trim, and casement work. The Model G1690 can be mounted to a bench, or be moved from worksite to worksite.

We are also pleased to provide this instruction manual with the Model G1690 Miter Trimmer. This instruction manual was written to guide you through assembly, review safety considerations and cover general operating procedures. It represents our latest effort to produce the best documentation possible. If you have any constructive criticisms or comments that you feel we should include in our next printing, please write to us at the address below.

Manager, Technical Documentation
Grizzly Imports, Inc.
P.O. Box 2069
Bellingham, WA 98227-2069

Finally, we stand behind our tools and machines. We have two excellent regional service departments at your disposal should the need arise. If you have any service questions or parts requests, please call or write to us at the appropriate location listed below.

If you live West of the
Mississippi River, contact:
P.O. Box 2069
Bellingham, WA 98227
Phone (206) 647-0801

If you live East of the
Mississippi River, contact:
2406 Reach Road
Williamsport, PA 17701
Phone (717) 326-3806

II. COMMENTARY

We would also like to state that the specifications and drawings in this manual represent the Model G1690 as supplied when this manual was prepared. We are meticulous with our manuals; however, product changes or discrepancies can occur. Whenever possible, we send manual updates to all owners of a particular tool or machine. Should you receive one, please insert the new information with the old and keep it for reference.

III. SAFETY RULES

There is a certain amount of danger associated with the use of this tool. Operating it with respect and caution will considerably lessen the possibility of personal injury. If these safety precautions are ignored, injury to the operator or others in the area could occur.

The Model G1690 was designed specifically as a trimming tool, not for general cutoff work. Further, the trimmer should only be used on natural wood fibers, not on composites such as plastics, particleboards, or MDF. This tool should never be modified or used for any other purpose than that for which it was intended. As well as being dangerous, modifications or improper use of the Model G1690 will void all warranties.

1. Never put your hands or fingers in the path of the blade. *Keep fingers clear of the cutting edge at all times.*
2. Do not use your trimmer on wood of poor quality, or wood with nails.
3. Do not take too heavy a slice in one pass. Take several thin slices instead.
4. Contain long hair before using the trimmer.
5. Do not wear loose clothing, neckties, or jewelry during operation.
6. Make sure trimmer is secured to benchtop before use.
7. Lock fences and stops in position before use.
8. Keep blades **sharp**.
9. Use trimmer to cut wood fibers only. Composites, plastics, etc. will damage the knives.
10. Keep trimmer out of the reach of children.

IV. UNPACKING

Your trimmer arrived packaged in a stiff cardboard box. If you find damage to the components after you've signed the delivery receipt and the truck and driver have gone, you will need to file a freight claim with the carrier. Save the container and all packing material for inspection by the carrier or their agent. Without the packing material, filing a freight claim could be difficult. Of course, if you ever need advice in this matter, please call us.

V. INVENTORY

The only loose part in the carton is the cast iron operating lever, which fits in the appropriate slot on the geared wheel on the back of the trimmer. If anything is missing, call or write to the appropriate regional service department listed in the Introduction. If anything is damaged, please follow the procedures described in the "Unpacking" section.

Note: Be extremely careful when unpacking the trimmer. Keep fingers and hands clear of the blade areas, should the blade slide freely during movement.

VI. CLEANUP

All of the unpainted surfaces of your machine have been treated with a thick, brown rust preventative to protect them from corrosion during shipment. The best way to remove this substance is with common paint thinner (mineral spirits) and plenty of clean rags. Do not use gasoline or other petroleum-based solvents because of their extremely low flash points. Nor should you use chlorine-based solvents—if you happen to splash some onto a painted surface, you'll ruin the finish. Before cleaning, please acknowledge the following safety rules when working with solvents:

- Read and follow all directions and warnings on the solvent label.
- Work only in a well ventilated area.
- Do not work near any type of open flame (e.g., pilot lights, kerosene heaters, and so on).
- **DO NOT** smoke while working with flammable material.
- Rags from the cleaning process are quite combustible. Dispose of waste towels so they do not create a fire hazard.

VII. OPERATION

If you have not already done so, secure the miter trimmer to a table or bench top. If you need the trimmer to be portable, mount it to a plywood base, then clamp the base to a stable flat surface before use. If the trimmer is not secured, performance and safety could be compromised.

The Model G1690 Miter Trimmer has two positive stops—one at 90° and another at 45°. These stops are preset at the factory and are probably accurate. However, before you trim an actual workpiece, test the angles on scraps first.

1. Crosscut a piece of scrapwood at 45° on a table saw or bandsaw. Then place the workpiece in the trimmer and slice off about $\frac{1}{32}$ " of the end.
2. Using a combination square, measure the accuracy of the angle you have just cut. In most cases, you shouldn't need to make an adjustment. But in case you do, minute adjustments can be made by loosening the screw that holds the brass cam in place on the trimmer's table.
3. Move the fence into the desired position by loosening the wing bolt and sliding the fence left or right. Next, rotate the cam until it is snug against the fence.
4. Then tighten the cam's screw. Tighten the wing bolt.
5. Similarly, the spring pin at the 45° position can be adjusted to compensate for minor inaccuracies. Simply rotate the cam to the desired position and tighten the stop in place. Slide the fence over the pin (you might need to use a small, flat-tipped screwdriver to push the pin down while the fence clears it), and the spring will pull the fence back against the pin to lock it in place at 45°. See Figure 1.
6. To set the fence to angles other than 45° or 90°, use a bevel gauge to determine the desired angle, then lock the fence in place against the bevel gauge.

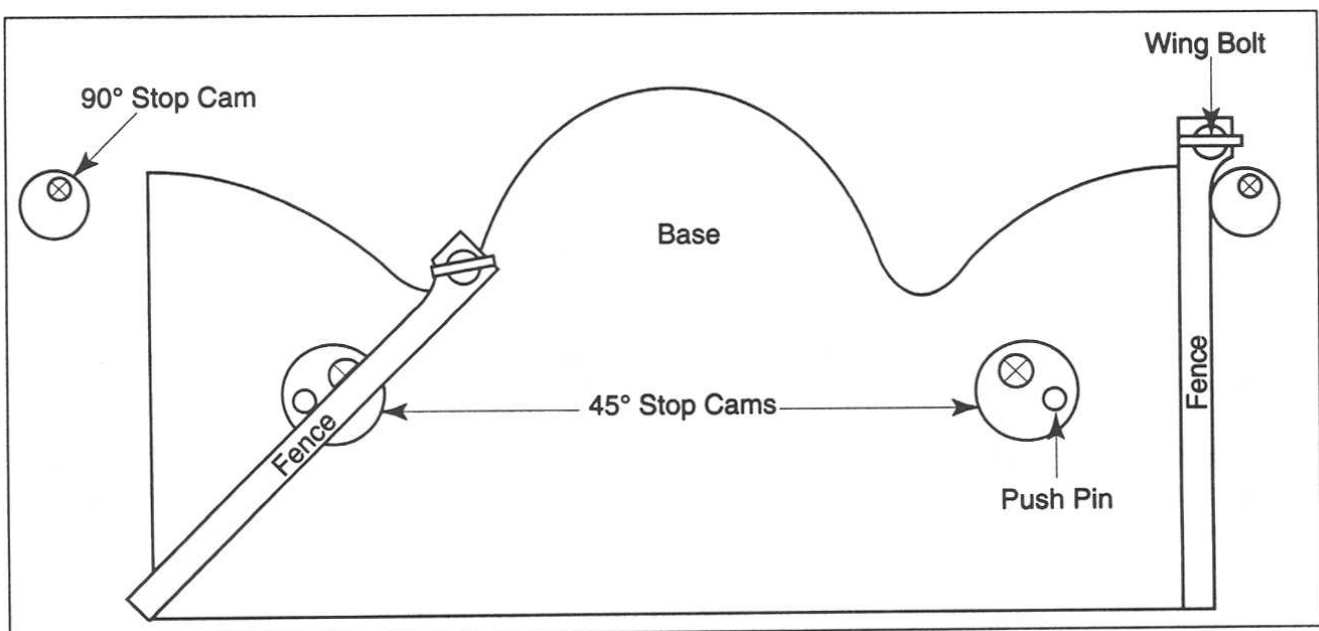


Figure 1

7. Prepare the workpiece by accurately measuring the desired length needed. Add approximately $\frac{1}{16}$ " to either end and cut off, using a table saw, band saw, or machine of your choice. Select the appropriate angle by moving the fence into place and tightening the wing bolt on the end of the arm. Move the piece ahead so it hangs over the edge of the bed by approximately $\frac{1}{32}$ ".
8. Now, while keeping pressure on the workpiece simultaneously downward and against the fence, draw the lever toward the workpiece with an even, steady force. You will get better results by making several thin slices rather than one thick slice.
9. You can achieve compound miters by placing a 45° block against the fence and resting the workpiece against the block as shown in Figure 2.

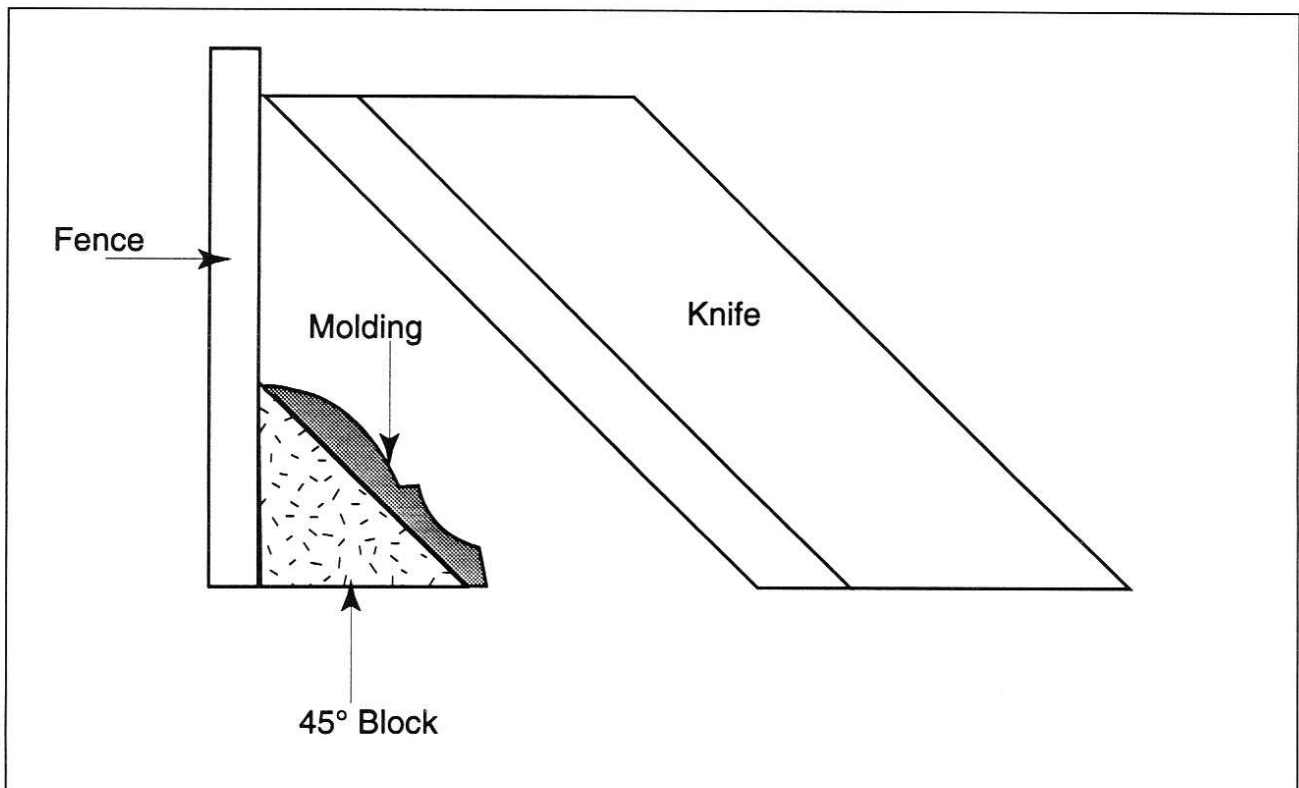


Figure 2

VIII. CLOSURE

The following pages contain general machine specifications, parts diagrams and lists, and Warranty and Return information for your Model G1690 Miter Trimmer.

If you need parts or help in assembling your machine, or if you need operational information, we encourage you to call the appropriate Regional Service Department. Our highly trained service technicians will be glad to help you.

If you have any comments or concerns dealing specifically with this manual, please write to our Bellingham, Washington location using the address listed in the Introduction.

IX. MACHINE DATA

GRIZZLY MODEL G1690 MITER TRIMMER

Overall Dimensions:

Height (Without Handle)	6"
Width	23"
Depth	9"
Capacity	3" x 3½"
Knife Size	½" x 2¼" x 5½"
Cutting Angle Range	-45° to +90°
Shipping Weight	28 lbs.
Net Weight	26 lbs.

Construction:

Base	Cast Iron
Handle	Cast Iron
Knives	Carbon Tool Steel

Specifications, while accurate, are subject to change without notice.

X. WARRANTY & RETURNS

Limited Warranty

Grizzly Imports, Inc. (Grizzly) warrants every product it sells for a period of 90 days on all parts and one year on all electric motors to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs, alterations or lack of maintenance. This is Grizzly's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special or consequential damages arising from the use of our products.

To take advantage of this warranty, the product or part must be returned to either our Bellingham or Williamsport warehouse, freight prepaid. Proof of purchase must accompany the merchandise. The manufacturers reserve the right to change specifications at any time as they constantly strive for better quality equipment.

We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

Parts and Service Information

Grizzly stands behind its products with a full parts inventory. These parts are available for purchase by Grizzly machine owners regardless of whether you are the original owner or a subsequent owner. If you are the original owner, please fill out the warranty information on the warranty card, remove the card from this manual and send it back to us within 10 days of product delivery. We appreciate any comments or suggestions and use them to better our products and service.

If you are not the original owner, please fill out one of the cards below, remove the card from the manual and send it back to us. By registering with us, you will have the same access to parts and service as the original owner.

If you need service or help with this machine, please call or write to us at the appropriate regional service location listed on page 1 of this manual.

CHANGE OF OWNERSHIP

Original Owner

Machine name & model no. _____

Name _____ Phone Number _____

Street _____

City _____

State _____ ZIP _____ Date purchased _____

New Owner

Name _____ Phone Number _____

Street _____

City _____

State _____ ZIP _____ Date purchased _____

CHANGE OF OWNERSHIP

Original Owner

Machine name & model no. _____

Name _____ Phone Number _____

Street _____

City _____

State _____ ZIP _____ Date purchased _____

New Owner

Name _____ Phone Number _____

Street _____

City _____

State _____ ZIP _____ Date purchased _____

WARRANTY CARD

NAME _____ PHONE NUMBER _____

STREET _____

CITY _____ STATE _____ ZIP _____

MODEL # _____ PURCHASED FROM GRIZZLY, BELLINGHAM, WA
OR WILLIAMSPORT, PA

INVOICE # _____

The following information is given on a voluntary basis. This information will be used for marketing purposes to help Grizzly develop better products. Your name will be included in our mailing list only. It will not be sold to other companies. Of course, all information is strictly confidential.

1. How did you find out about us?

Advertisement Friend Other _____
 Catalog Card deck

2. Do you think your machine represents good value? YES ___ NO ___

3. Would you allow us to use your name as a reference for Grizzly customers in your area? YES ___ NO ___
(Note: Your name will be used a maximum of three times.)

4. To which of the following publications do you subscribe? Check all that apply.

<input type="checkbox"/> Fine Woodworking	<input type="checkbox"/> Popular Woodworking	<input type="checkbox"/> FDM	<input type="checkbox"/> Practical Homeowner
<input type="checkbox"/> American Woodworker	<input type="checkbox"/> Fine Homebuilding	<input type="checkbox"/> Wood & Wood Products	<input type="checkbox"/> Home Handyman
<input type="checkbox"/> Woodwork	<input type="checkbox"/> Workbench	<input type="checkbox"/> Old House Journal	<input type="checkbox"/> Shop Notes
<input type="checkbox"/> WOOD	<input type="checkbox"/> Woodsmith	<input type="checkbox"/> Journal of Light Construction	<input type="checkbox"/> Cabinetmaker
<input type="checkbox"/> Woodworker's Journal	<input type="checkbox"/> Woodshop News	<input type="checkbox"/> Wooden Boat	<input type="checkbox"/> Other _____

5. What is your annual household income?

<input type="checkbox"/> \$20,000-\$30,000	<input type="checkbox"/> \$60,001-\$70,000
<input type="checkbox"/> \$30,001-\$40,000	<input type="checkbox"/> \$70,001-\$80,000
<input type="checkbox"/> \$40,001-\$50,000	<input type="checkbox"/> \$80,001-\$90,000
<input type="checkbox"/> \$50,001-\$60,000	<input type="checkbox"/> + \$90,000

6. To which age group do you belong?

<input type="checkbox"/> 20-30	<input type="checkbox"/> 41-50	<input type="checkbox"/> 61-70
<input type="checkbox"/> 31-40	<input type="checkbox"/> 51-60	<input type="checkbox"/> +70

7. Which of the following stationary woodworking machines do you own? Check all that apply.

<input type="checkbox"/> Table Saw	<input type="checkbox"/> Jointer	<input type="checkbox"/> Lathe	<input type="checkbox"/> Scroll Saw
<input type="checkbox"/> Band Saw	<input type="checkbox"/> Planer	<input type="checkbox"/> Panel Saw	<input type="checkbox"/> Mortiser
<input type="checkbox"/> Radial Arm Saw	<input type="checkbox"/> Drill Press	<input type="checkbox"/> Air Compressor & tools	<input type="checkbox"/> Other _____
<input type="checkbox"/> Wide Belt Sander	<input type="checkbox"/> Shaper	<input type="checkbox"/> Dust Collector	
<input type="checkbox"/> Drum Sander	<input type="checkbox"/> Power Feeder	<input type="checkbox"/> Vacuum Veneer Press	

8. How many of the machines you checked in Question 7 are Grizzly machines? _____

9. Which of the following portable woodworking machines or power tools do you own? Check all that apply.

<input type="checkbox"/> Circular Saw	<input type="checkbox"/> Saber Saw	<input type="checkbox"/> Miter Saw	<input type="checkbox"/> Biscuit Joiner	Other: _____
<input type="checkbox"/> Drill/Driver	<input type="checkbox"/> Recipro Saw	<input type="checkbox"/> Belt Sander	<input type="checkbox"/> Orbital Sander	_____
<input type="checkbox"/> R-O Sander	<input type="checkbox"/> Router	<input type="checkbox"/> Planer	<input type="checkbox"/> Detail Sander	_____

10. Which of these machines or other tools would you like Grizzly to carry? Check all that apply.

<input type="checkbox"/> Radial Arm Saw	<input type="checkbox"/> Biscuit Joiner	<input type="checkbox"/> Combination Planer/Jointer	Other: _____
<input type="checkbox"/> Panel Saw	<input type="checkbox"/> Pin Router	<input type="checkbox"/> 12" Table Saw	_____
<input type="checkbox"/> Vertical Spindle Sander	<input type="checkbox"/> Mortiser	<input type="checkbox"/> 24" Planer	_____

11. Of all the mail order woodworking companies you have purchased from, how do you rate Grizzly in terms of overall customer satisfaction?

<input type="checkbox"/> The best	<input type="checkbox"/> Above average	<input type="checkbox"/> Average
<input type="checkbox"/> Below average	<input type="checkbox"/> The worst	

12. Comments: _____

FOLD ALONG THIS LINE

From:

PLACE
STAMP
HERE



GRIZZLY IMPORTS

P O BOX 2069

BELLINGHAM WA 98227-2069

FOLD ALONG THIS LINE

TAPE ALONG EDGES—PLEASE DO NOT STAPLE

From:

PLACE
STAMP
HERE



GRIZZLY IMPORTS INC

P O BOX 2069

BELLINGHAM WA 98227-2069

From:

PLACE
STAMP
HERE



GRIZZLY IMPORTS INC

P O BOX 2069

BELLINGHAM WA 98227-2069