

SECTION I - INTRODUCTION

MANUAL DESCRIPTION

This manual describes the installation, operation and maintenance of the MARVEL Series V-10A Metal Cutting Band Saw. The purpose of the manual is to familiarize the operator with the procedures of operation which will help him take full advantage of the machine's capability. Operating controls and procedures are presented to the operator can familiarize himself with the saw with little outside help. This reduces down time on the machine and non-productive operator time.

The maintenance instructions include periodic care of the equipment to insure a long life and accurate performance of the machine. In addition it contains a chart of problems that might come up, their probable cause and corrective action.

Instructions for installation, operation and maintenance of the following supplementary equipment available for use with the Series V-10A are covered in the supplementary equipment section of this manual.

Code G1: Hydraulic hold-down assembly

Code G2: Discharge tray

Code G3: Serrated face plate set

Code G4: Chip box

Material handling equipment

A separate parts catalog is included with each saw. It identifies parts which may be purchased either as piece parts or as assemblies. When ordering parts be sure to specify:

1. Machine serial number
2. Quantity desired
3. Part number
4. Part description

EQUIPMENT DESCRIPTION (Refer to Figure 1)

The MARVEL Series V-10A is a versatile, vertical band saw machine. It is capable of performing cutting operations on a wide variety of round, rectangular, structural and thick or thin-walled tubular stock up to the saw's nominal capacity of 10" x 10" (254 mm x 254 mm). The saw can be quickly set up to make either straight cuts or miter cuts up to 45° right while the workpiece remains stationary on the saw table. The above operations can be performed in either of two modes: As single cuts, or completely automatic cycle that will continue cutting pieces until stopped.

The machine is equipped with a power feed system that provides constant, uniform feed pressure against the work.

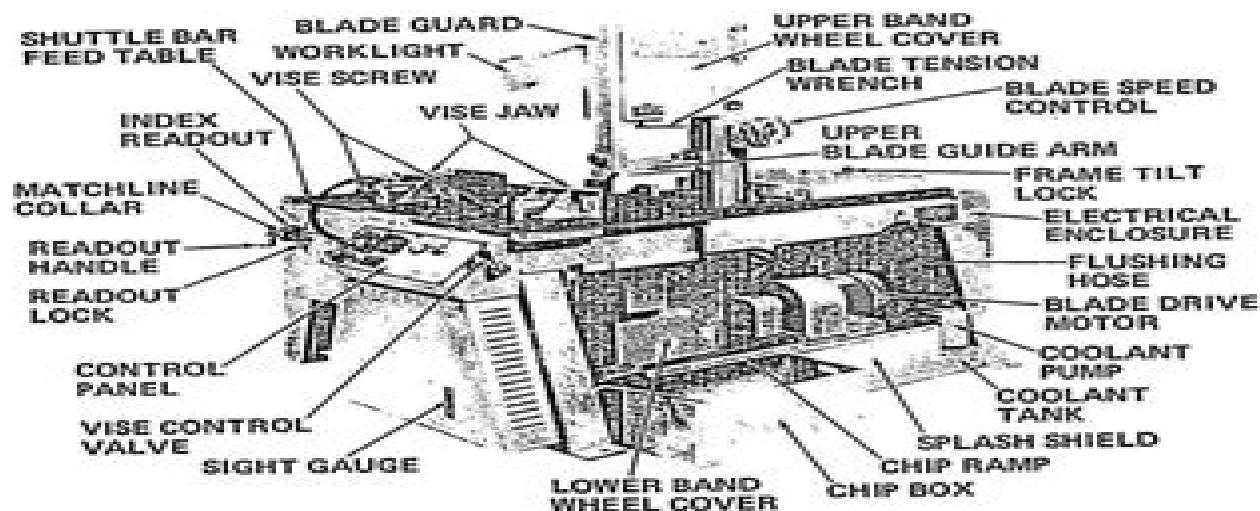


Figure 1

Marvel V10 Saw Manual

Daniel Wallace



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MARVEL 2.5 User Manual Columbia University. Department of Computer Science, M. W. Cohen, M. H. Sokolsky, N. S. Barghouti, 1990 **Disston Saw, Tool, and File Manual** Henry Disston & Sons, Inc. (Philadelphia, Pa.), 1939 **Iron Man Manual** Daniel Wallace, 2013-12-03 Includes removable facsimile items and memorabilia *The B.T. & B. Manual* Covell-Hanchett Company, 1943 Technical Manual of Recommended Practices, 1968 The Acme Saw Shop Manual Max Manufacturing Company, 1937 Chain Saw Service Manual, 1974 *Power Saw Manual* John Ryan, L. D. Ryan, 2005-01-01
Operator's Manual and Parts Books and Parts List; Chain Saw and Cordwood Saw Ford Motor Company, Dearborn Motors Corporation, Troy (Mich.), 1953 **Chain Saw Manual** Technical Publications, Inc, 1970 **The Mermaid Saw and Cutter Manual**, 19??

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web aug 15 2023 the meaning of unitarian universalist is a person who belongs to a religion that allows its members to freely choose their own religious beliefs and that supports liberal social action 27 july 2023 the fellowship artists will also perform at a free community concert on aug 10 at first unitarian universalist church in word of the

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web strictly speaking modern day unitarian universalism is not unitarian in theology despite its name this denomination does not necessarily promote either belief in one god or universal salvation it is merely the inheritor of the unitarian and universalist church system in america

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web what is unitarianism and unitarian universalism in unitarian universalism you can bring your whole self your full identity your questioning mind your expansive heart together we create a force more powerful than one person or one belief system

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web unitarian universalism uu is a mainline religious organization with roots reaching back more than 200 years

universalism was organized in 1793 and unitarianism was organized in 1825 the two faiths consolidated into the unitarian universalist association in 1961 this religion combines the richness of both faith traditions

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web the unitarians and universalists are groups that existed long before the creation of unitarian universalism early unitarians did not hold universalist beliefs and early universalists did not hold unitarian beliefs but beginning in the nineteenth century the theologies of the two groups started becoming more similar

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web for light refraction follows snell s law which states that for a given pair of media the ratio of the sines of the angle of incidence and angle of refraction is equal to the ratio of phase velocities in the two media or equivalently to the refractive indices of the two media

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web light reflection refraction physics light rays change direction when they reflect off a surface move from one transparent medium into another or travel through a medium whose composition is continuously changing

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web 3 2 2 references what is reflection when a ray of light comes back into the same medium after striking the surface of another medium then the phenomenon is called reflection of light in other words reflection is the bouncing back of the light rays from a surface in the same medium what is refraction

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web 692 reflection and refraction of light p25 9 a as measured from the diagram the incidence angle is 60 and the refraction angle is 35 from snell's law $\sin \theta_1 / v_1 = \sin \theta_2 / v_2$ then $\sin 35 / 60 = \sin \theta_2 / v_2$ and the speed of light in the block is 20 10 8 ms b the frequency of the light does not change upon refraction

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web there are two laws that govern how light changes direction when it interacts with matter the law of reflection for situations in which light bounces off matter and the law of refraction for situations in which light passes through matter in this section we consider the geometric optics of reflection

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web refraction is the bending of light it also happens with sound water and other waves as it passes from one transparent substance into another this bending by refraction makes it possible for us to have lenses magnifying glasses prisms and rainbows even our eyes depend upon this bending of light