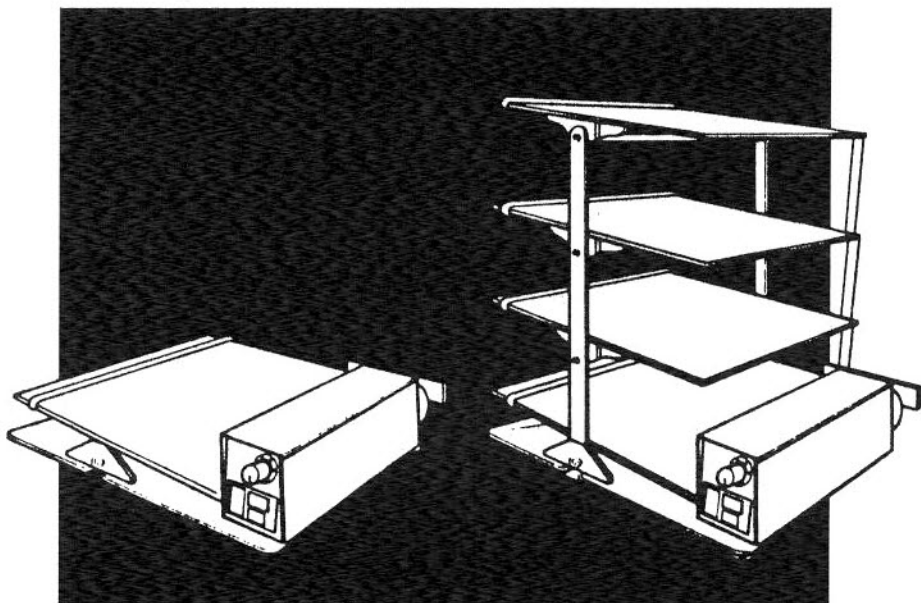


OWNER'S MANUAL FOR ROCAA115S & ROCAA220S



The Stovall Hi/Lo Profile Rocker™

STOVALL LIFE SCIENCE
INCORPORATED

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INTRODUCTION

Your satisfaction and safety are important to Stovall Life Science, Inc. and a proper understanding of this shaker is necessary to attain these objectives.

As the ultimate user of this apparatus it is your responsibility to understand its proper function and operational characteristics. These instructions should be carefully read and all operators given adequate training before placing the unit in service. Awareness of the stated cautions and warnings, and compliance with recommended operating parameters, along with maintenance requirements, are important for safe and satisfactory operation. The Stovall Hi/Lo Profile Rocker™ should be used for its intended application; alterations or modifications will void the warranty.

UNPACKING AND DAMAGE

Save all packing material, and these instructions, if the shaker is received damaged. This shaker was carefully packaged and thoroughly inspected before leaving our factory. **Responsibility for its safe delivery was assumed by the carrier** upon acceptance of the shipment; therefore, claims for loss or damage sustained in transit must be made upon the carrier by the recipient as follows:

VISIBLE LOSS OR DAMAGE: Note any external evidence of loss or damage on the freight bill, or express receipt, and have it signed by the carrier's agent. Failure to describe adequately such external damage may result in the carrier's refusing to honor your damage claim. The form required to file such a claim will be supplied by the carrier.

CONCEALED LOSS OR DAMAGE: Concealed loss or damage means loss or damage which does not become apparent until the merchandise has been unpacked and inspected. Should either occur, make a written request for inspection by the carrier's agent **within 14 days** of the delivery date; then file a claim with the carrier since the damage is the carrier's responsibility. By following these instructions carefully, we guarantee our full support of your claim to be compensated for loss from concealed damage.

Do not, for any reason, return this unit without first obtaining authorization. In any correspondence to Stovall Life Science, Inc., please supply the name-plate data, including model number and serial number.

INSTALLATION

LOCATION: The Stovall Hi/Lo Profile Rocker is designed to operate in a reasonable, but limited, range of temperatures and conditions. It can be used in incubated and refrigerated as well as ambient

laboratory environments, between 0°C and 60°C. It will operate successfully in non-condensing, high humidity environments of up to 95% humidity.

Warning: Operate only in temperature conditions between 0°C to 60°C.

CLEANING: The exterior of the shaker case, platform and other parts can be cleaned with a rag dampened with a solution of mild detergent then rinsed by wiping with a cloth dampened in water.

Warning: Do not immerse the electrical elements in water or other liquids or use around flammable liquids and gases.

Warning: Always unplug power cord from receptacle before cleaning unit.

STERILE CLEANING-AUTO CLAVE: Except for electrical elements and the non-skid platform pad the Hi/Lo Rocker is made of stainless steel and high temp plastic bearings, and can be easily disassembled and sterilized in an autoclave. The top of the Motor/Control Module also can be autoclaved with the base and rocker platforms.

When the top of the Motor/Control Module is removed the motor, control and switches are revealed. These elements can be sterilized by spraying bactericide on all elements then allowed to dry before reassembly and use.

ELECTRICAL CONNECTION: For personal safety this instrument must be properly grounded. The power cord of the Rocker is equipped with a three-prong, grounded plug which mates with a standard three-prong, grounded wall receptacle to minimize the possibility of electric shock hazard from this shaker.

The user should have the wall receptacle and circuit checked by a qualified electrician to make sure the receptacle is properly grounded. Where a two-prong receptacle is encountered it is the responsibility of the user to have it replaced with a properly grounded three-prong wall receptacle.

Warning: Do not under any circumstance, cut or remove the third ground prong from the power cord. Do not use a two-prong adapter plug.

Determine the total amount of current presently being used by other apparatus connected to the circuit that will be used for this shaker. The usual current demand of the Rocker is less than 1 amp of current. It will not pull more than .6 to 1.2 amps of current during a short interval. It is critical that this added current demand and other equipment on the circuit not exceed the rating of the fuse or circuit breaker in use.

FUSE: The fuse for the Rocker is 5x20mm 1.25 amp slobber (115v) or 5x20mm .63 amp slobber (220v).

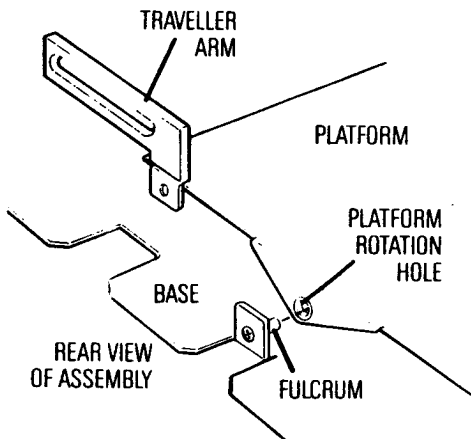
Caution: Be sure the input voltage is of the same voltage as specified on the nameplate located on the flat panel of the Motor/Control Module.

I SETTING THE ROCKER UP

The basic Rocker unit comes to you in three (3) pieces which you must put together:

1. Base
2. Platform with Traveller Arm attached
3. Motor/Control Module

A. 1. Insert the Platform with the Traveller Arm as illustrated from the rear of the unit.

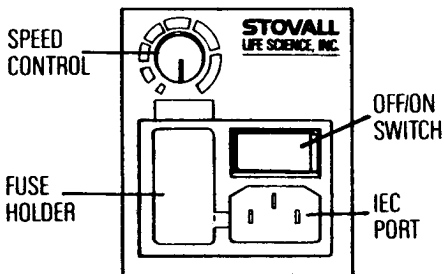
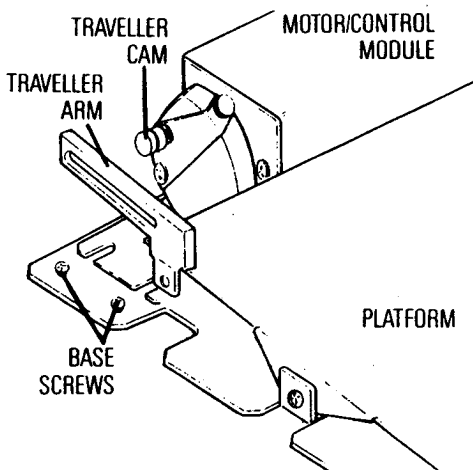


B. 1. Loosen the two base screws which will capture the flange of the Motor/Control Module.

2. Place the Module so the shoulder washer attached to the base slips into the large part of the keyhole slot in the bottom of the Module.

3. Push the Motor/Control Module forward and guide the Traveller Cam into the Traveller Arm.

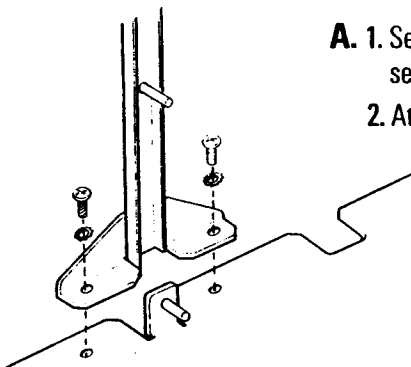
4. Tighten the two screws holding the flange in place.



C. 1. Attach the power cord to the IEC in the front of the Motor/Control Module.

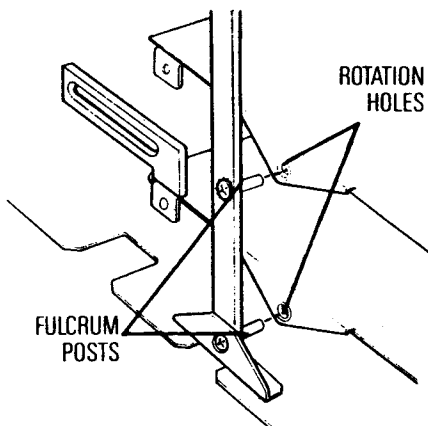
2. Plug the cord into a wall outlet of the appropriate (see model label) voltage to operate.

II ATTACHING ADDITIONAL PLATFORMS TO THE BASIC ROCKER

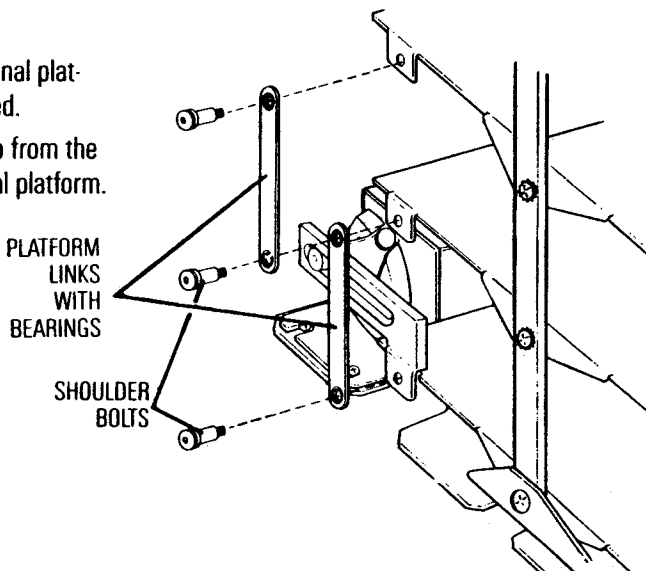


- A. 1. Set the basic Rocker unit up as described in section I.
2. Attach the two uprights, front and back, as described in the illustration to the left.

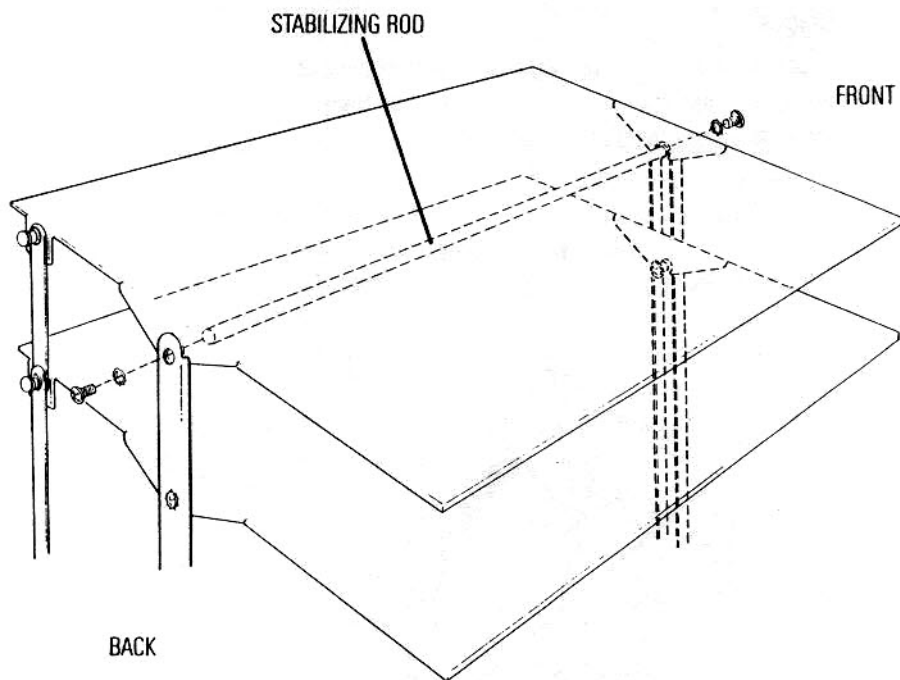
- B. 1. Slide the Platform Rotation Hole with bearing over the Fulcrum installed in the rear upright.
2. The half-hole in the front of the Platform rests on the Fulcrum Post at the front of the unit.



- C. 1. Attach the additional platforms as illustrated.
2. Work your way up from the bottom to the final platform.



- D. 1.** The final platform (it can be the first, second or third additional platform) uses a Stabilizing Rod as its Fulcrum Post.
- 2.** Insert the rod into the Rotation Hole of the Platform and secure the supportive rod to both uprights as illustrated.

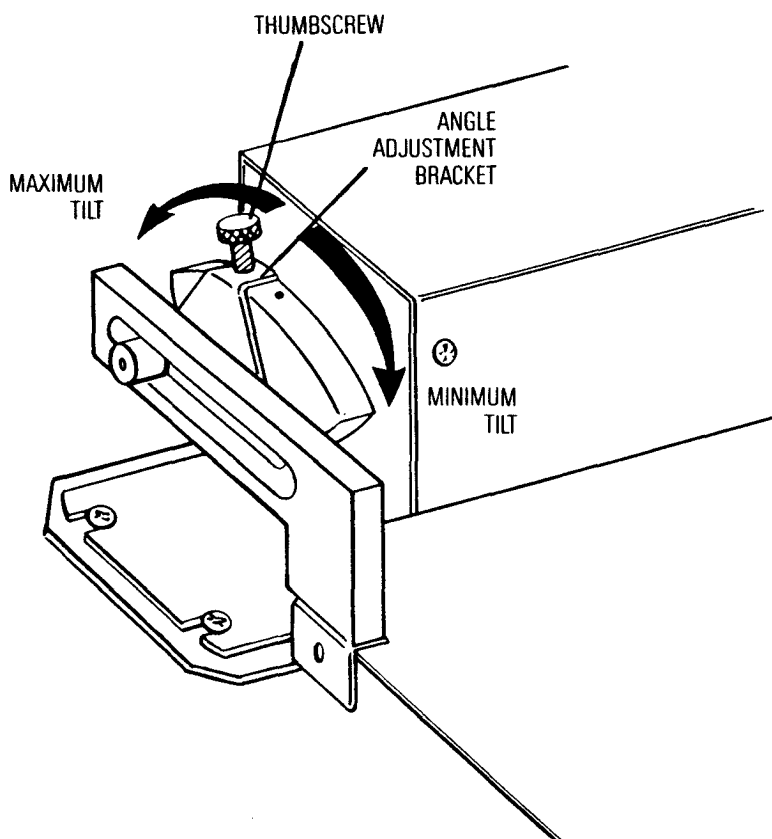


- E. 1.** Tighten all screws and bolts before turning the Rocker on.

III ADJUSTMENT OF THE PLATFORM TILT CONTROL

A. The angle of the Platform can be adjusted from 2° minimum pitch to a maximum of 11°.

1. Loosen the Thumbscrew on the Angle Adjustment Bracket.
2. Facing from the rear, move to the left for maximum tilt, and to the right for minimum tilt. Tighten the thumb screw to secure the platform tilt angle.



Caution: Maximum load should not exceed 20 lbs.

TROUBLE SHOOTING: In the event any problem develops with your Rocker, do not attempt to perform any service on the unit without first contacting the Stovall Life Science Service Department. Unauthorized servicing may void the warranty. Stovall will readily supply information regarding trouble shooting minor problems upon request.

In any correspondence with Stovall concerning your Rocker please refer to the appropriate Model Number and Serial Number. This information may be found on the label attached to the rear of the unit.

Should your shaker suddenly

cease to operate, first make sure there is power to the circuit to which the shaker is connected.

Secondly, check the fuse in the front panel. First, unplug the power cord, then open the fuse panel with the help of a screw driver. The fuse holder insert will pop free exposing the fuse. Replace the defective fuse with one of equal rating. A spare fuse is contained in the fuse holder.

If the status light does not operate when the power is turned on, one of the above two situations is most likely the cause of the problem.