

The HA90C TREATMENT TABLE




Hill Laboratories
COMPANY

REFERENCE MANUAL

Congratulations!

AND WELCOME TO THE HILL LABORATORIES FAMILY.

Hill Laboratories Company has been making

quality a family business since 1945.

Your Hill HA90C Table is built in a tradition

of innovation and value that Hill Laboratories products

have become known for.

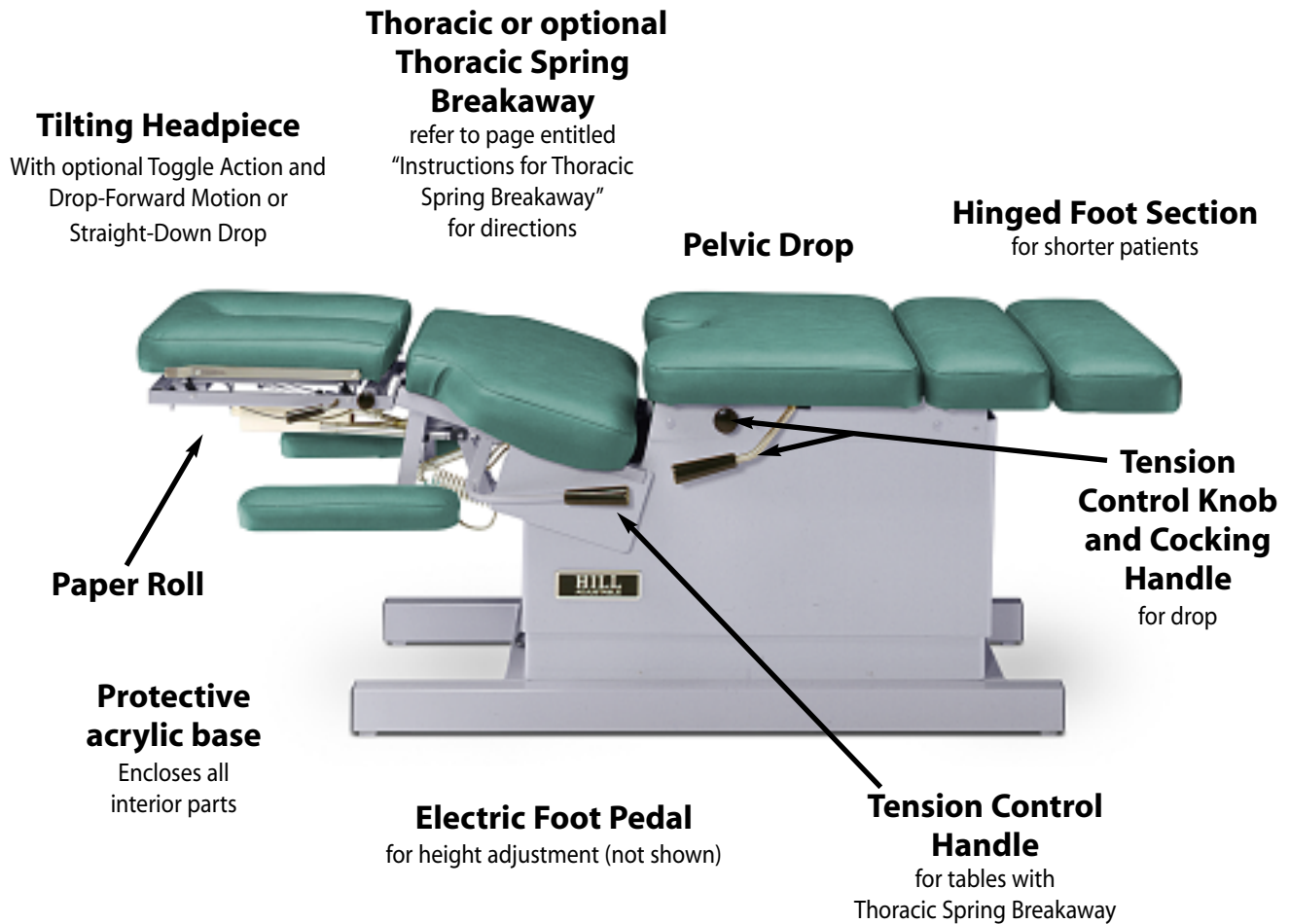
Our good name rests on the confidence that

your Hill Table will provide you with solid, reliable service

for many years to come.

READY FOR USE.

Your Hill HA90C comes ready to plug into any 110 outlet.



SPECIFICATIONS

- Lifting capacity - 450 pounds
- Acrylic thermo-plastic base
- Ultra-Cell® foam for comfort and shape retention
- Electric requirement - 110 volts, 60 Hz., 2.7 amps.
or where specified - 220 volts, 50 Hz.
- Height Range - 22"-35"; with Breakaway - 24" to 35"
 - Shipping weight approximately 250 lbs.
- Standard width 24," optional 22," and 27" and 30"

INSTRUCTIONS FOR THORACIC SPRING BREAKAWAY

and Thoracic Release

Thoracic Spring Breakaway

1. With 'cushion lock switch' in the 'out' position (figure A), the thoracic cushion is free-moving with adjustable spring tensions.

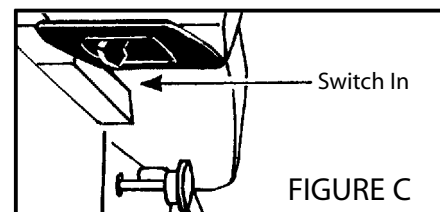
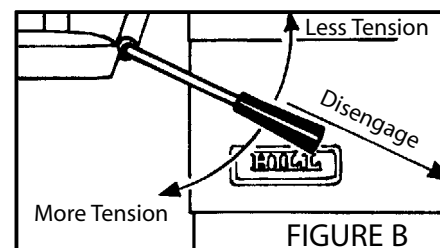
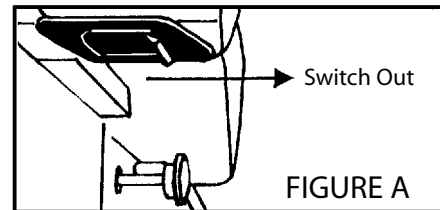
To adjust spring tension to desired resistance, firmly and directly pull out on tension control lever (figure B). This will disengage the spring adjustment catch allowing the thoracic tension adjustment.

Releasing the handle reengages the spring adjustment catch to lock the thoracic cushion at the desired tension level.

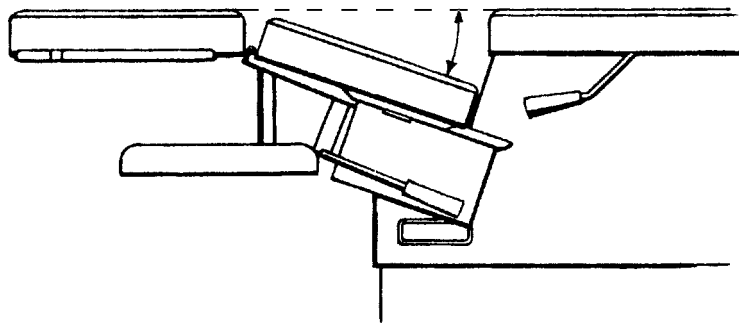
2. With cushion lock switch moved to the 'in' position, thoracic cushion locks to desired height. (figure C).

Thoracic Release (without tension control lever)

To operate thoracic release without the spring breakaway feature, simply move the cushion lock switch (figure A) to the 'out' position and freely move the thoracic section to the desired depth. Move switch in to lock.



Maximum depth of drop approximately five inches.



CAUTION!

-For tables with Spring Breakaway Feature-

- When thoracic cushion is locked in the down position, especially under high tension, never move the cushion lock to the out position without first moving the spring tension to the lowest level.
- Do not attempt to adjust thoracic tension without completely disengaging the tension control lever.

INSTRUCTIONS FOR DUAL-ACTION HEADPIECE

Important Note:

Whenever adjusting the setting, be sure that the headpiece is in the DOWN position (not cocked).

1. To use the Drop-Forward Motion action of the headpiece, simply pull the setting handle out towards you and turn it to the left until it hits the cocking handle (see photo).

Cock the drop with the cocking handle; the drop is ready to set.



2. To use the Straight-Down Drop action of the headpiece, simply push the handle back to the right until it springs into the channel on the side of the setting mechanism (see photo). Be sure that the pin of the mechanism locks into the hole directly behind it; if it doesn't, the drop will not work.

Cock the drop with the cocking handle; the drop is ready to set.

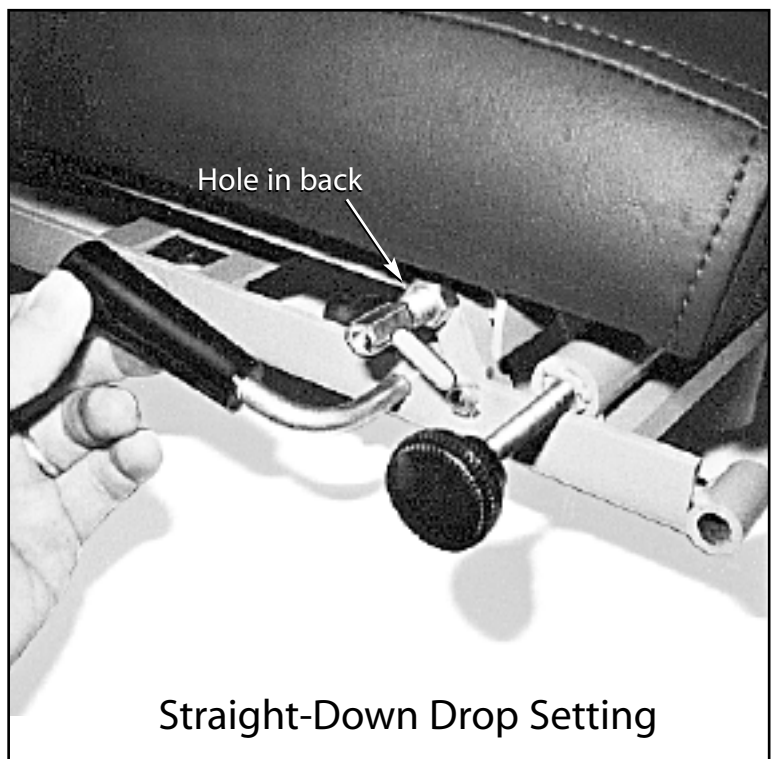


TABLE CARE

This page and the following pages contain some helpful suggestions for keeping your Hill Table in excellent working order plus some technical drawings and service sheets for instruction in the event of a problem.

CLEANING YOUR TABLE

Your Hill Table comes upholstered in a highly durable vinyl material. Its appearance is guarded by Prefixx™ brand protective finish. Your upholstery may be cleaned with the Hill Laboratories Vinyl Cleaner or soap and water without change to surface luster. Stubborn stains can be cleaned with most common solvent cleaners such as naphtha (lighter fluid), rubbing alcohol (IPA type), toluene, Coleman gas, turpentine (paint thinner), and nail polish remover (50/50 mixture of acetone and water) but avoid everyday use of products that contain alcohol as they will eventually cause the material to break down. One hundred percent acetone can also be used for short periods but it is suggested that it first be tested on an inconspicuous area of the table.

Caution: These solvents are highly flammable; exercise proper care when cleaning with these materials and do not use near open flame or intense heat. Wear rubber gloves during all cleaning activities.

When cleaning other parts of your table (besides upholstery) use only nonabrasive household detergents and water.

TROUBLE SHOOTING

Problem

The table is making a high-pitched squealing sound, usually when reaching the high end of the stroke.

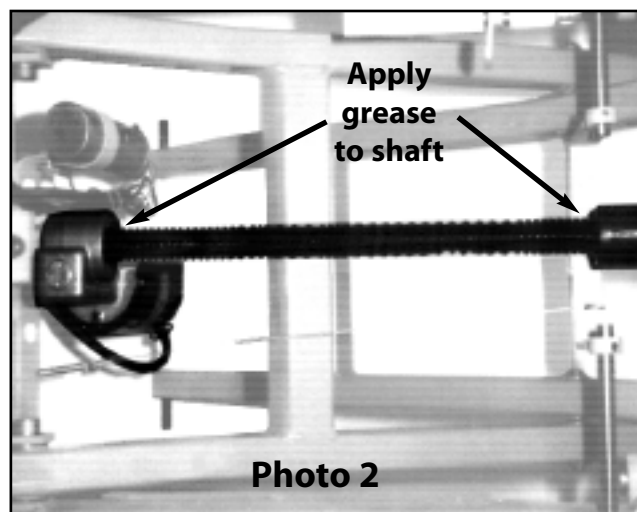
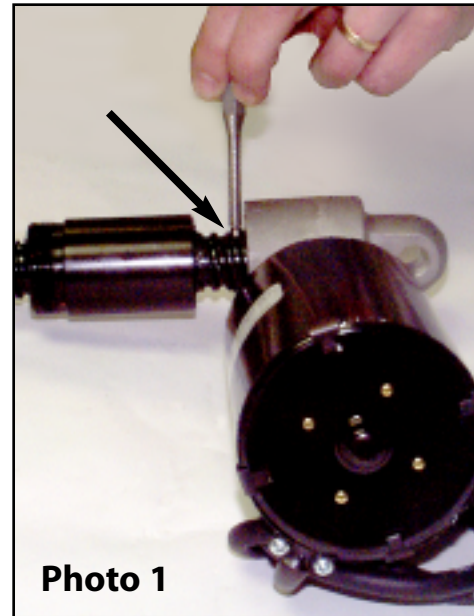
Solution

The actuator pin needs adjustment.

Do the following to fix the problem:

(IMPORTANT: It is not necessary to remove the actuator from the table as shown here.)

1. With the foot pedal, adjust the table to the down position. Unplug the table.
2. Gently roll the table over on its side to expose the underside of the base.
3. Locate the pin on the actuator shaft (see photo 1). Notice that it protrudes out both sides of the shaft. Use a hammer and a punch (or screwdriver) to gently tap the pin on one side to make it protrude further out the opposite side of the shaft. Now plug the table back in and run the actuator to see if the squealing has stopped. If not, tap the pin gently from either side until it does.
4. Apply grease to both sides of the actuator shaft as shown in photo 2.



TROUBLE SHOOTING

Problem

The table is making a rumbling or grinding sound when the height is adjusted and/or the height of the table slips downward when height is not being adjusted.

Solution

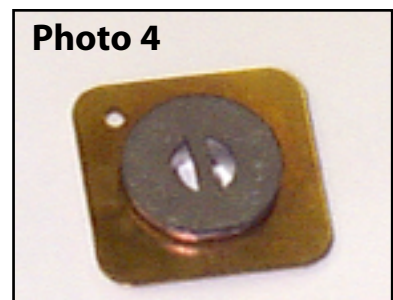
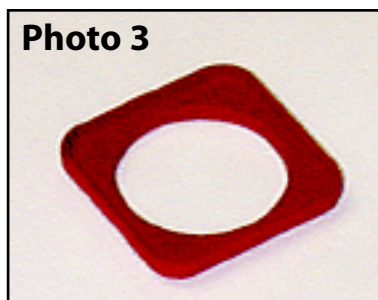
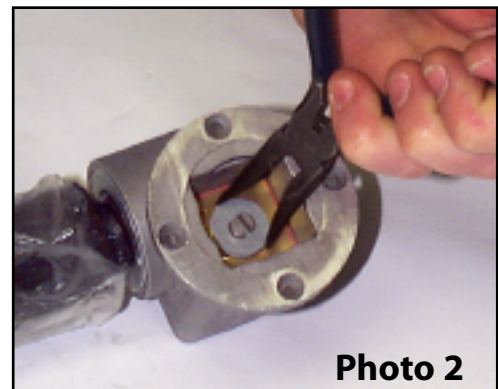
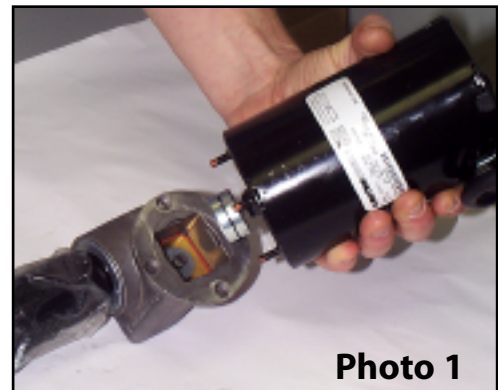
The actuator brake needs to be replaced. Do the following to fix the problem:

1. Adjust the table height to the highest setting. Unplug the table, and then remove the screws around the bottom of the plastic base skirting. Next, lift the inside skirt up so that it slides inside the outside skirt and then attach the bottom of the skirts together with masking tape to keep them up and out of the way while you work.

IMPORTANT: It is not necessary to remove the actuator from the table as shown here.

2. Remove the 3/8" nuts that hold the black motor to the actuator casing (2 or 3 depending on the age of the table). Then lift the motor off the casing to expose the interior and the actuator brake (Photo 1)
3. Using a needle nose pliers, grasp the actuator brake on both sides and carefully remove it and the gasket underneath (see photos 2 and 3).
4. Clean the inside the casing, removing any grease and dirt. Insert the new gasket and brake being careful that the "smooth side" of the brake is face up (photo 4).

5. Reattach the motor with nuts. Lower the inside skirt and secure with screws.



TROUBLE SHOOTING

Problem

The table is making a high-pitched winding sound when the height is adjusted.

Solution

The actuator worm gear needs to be replaced. Do the following to fix the problem:

IMPORTANT: It is not necessary to remove the actuator from the table as shown here!

1. Adjust the table height to the middle height setting. Unplug the table, and then gently tip the table up so that it stands on the foot end of the table.

2. If your table has a grease fitting (see Photo 1), first remove it with a pliers or adjustable wrench.

3. For actuators that do not have a grease fitting, unscrew the cap by tapping counter clockwise with a hammer and nail (or punch), angling the nail into the depressions in the cap as shown in photo 2.

4. Take the new worm gear and coat it completely and generously with grease.

5. Take a rag and wrap it around the actuator shaft (see photo 4). Then with your hand on the rag, slowly rotate the shaft clockwise until the worm gear pops up from the casing as shown in photo 3. **IMPORTANT:** Only rotate the worm gear upwards enough to grasp it with your fingers but no further. Also, do not turn the actuator shaft after removing the worm gear as this will make placing the new one more difficult.

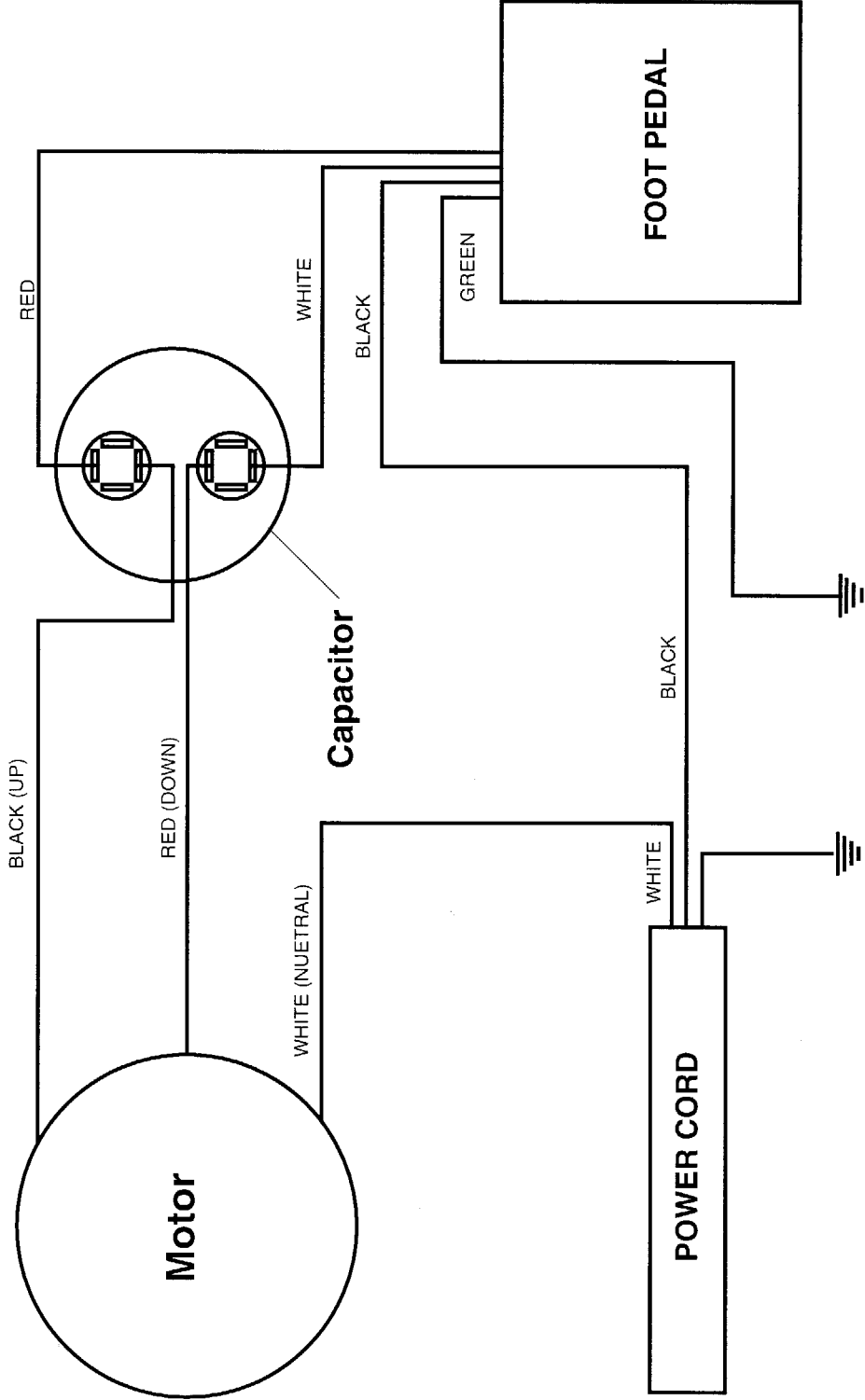
6. Remove the old worm gear.

7. Insert the new worm gear into the casing, aligning it with the "half-moon slots in the brake at the bottom of the hole. If the gear does not immediately align, then grasp the actuator shaft with your hand, and slightly rotate the shaft. The gear will pop into place as you move the shaft (it may be necessary to pull the gear back out and rotate the actuator slightly.) When the gear is properly seated, it should recede approximately 1/4 inch below the top of the casing in order to replace the cap.

8. While continuing to hold the actuator shaft, replace the cap and tighten.



WIRING DIAGRAM



The Family of Treatment Tables

All tables shown have electric adjustable height except the Anatomotor, the Repex, the Hi-Lo and the PT Tilt



Anatomotor
Roller Massage



Anatomotor w/traction



Stationary Anatomotor



HA90



Standard HA90C



HA90C



PT Tilting



HA90 Lift Back



Mat Table



HA90E



90MD



Podiatry Model

Manufactured by Hill Laboratories



Air-Flex w/Pelvic Drop



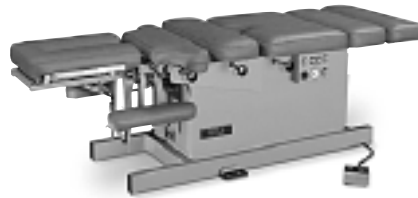
Air-Flex w/4 Drops



Hi-Lo



HA90C w/Breakaway



Air-Drop HA90C



Extend-R



PT Mobilization



Rath Mechanical
for McKenzie Technique



Repex Table
for McKenzie Technique



Counterstrain
(one of many positions)



HA90 Tilt
Vascular/Diagnostic



Occupational Table

At Your Service

THE HILL LABORATORIES GUARANTEE

Your Hill Laboratories HA90C Table has been thoroughly tested and inspected before shipment. All parts are guaranteed against defect in materials for one full year from date of purchase. During this period, any such defect will be remedied by Hill Laboratories or by a factory-authorized repair service without charge. Tables damaged by mishandling or accident will be repaired at a reasonable charge.

All correspondence should be directed to your local dealer, or when this is not possible, to Hill Laboratories directly.

We appreciate your business and your confidence in our product. Our aim is to provide you with excellent service and satisfaction for many years to come.

Howard A. Hill

President of Hill Laboratories Company

Table Serial Number _____



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