

RICH-MAR CORPORATION

Therasound 3 Series Preventive Maintenance Procedure

Serial No. _____

Date _____

Software version _____

Display and Front Panel Switch Tests

1. Press select switch and scroll through 10%,20%,50%,and 100% verify that all LED illuminate.
2. Press the "+" switch in the time window and verify that times increases , press "-" switch and verify that time decreases.
3. Press the "+" switch in the intensity window verify that intensity increases,press "-" switch verify that intensity decreases.
4. Press the select switch in the intensity window verify that the Watts LED switches between Watts and Watts/cm2.
5. Enter a time and a intensity,press the start/stop switch verify that treatment begins, press pause/resume switch verify that time stops flashing and that the ultrasound output drops to zero.
6. On 3.4 and 3.5 press the frequency switch verify that the LED switches between 1 meg and 3 meg.
7. On model 3.5 press the transducer select switch verify that the LED switches between 2cm and 5 cm.

Ultrasound Function Tests

1. Setup treatment 5cm\1meg 100% 3 min Total Watts
2. Adjust the intensity to the maximum and verify that the wattmeter is within range.

10 watts	8.6-11.4 watts
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3. Select 50% duty cycle verify output at 10 watts is between 4.25 and 5.75 watts.
4. Switch frequency to 3 meg and repeat steps 2 and 3.
5. Switch to 2cm\1meg verify output to be between 3.4-4.6 watts.
6. Switch to 50% duty cycle verify that output is between 1.72-2.28 watts.
7. Switch to 2cm\3meg repeat steps 6 and 7.

Models 3.2 and 3.2X only

Set up the treatment: 10cm²/1MHz, 100%, 10:00, 30 Watts Total

1. Adjust the intensity to the watt settings below and verify that the wattmeter measurements fall into the range listed.
2. Verify that vector vid should not exceed 60 for 3.2X 50 for 3.2

	<u>Watt Setting</u>		<u>Wattmeter Range</u>
	3.2	20 watts	18 – 24 watts
	3.2X	30 watts	24 – 36 watts

3.2 only

Set up the treatment: 10cm²/1MHz, 100%, 10:00, 20 Watts Total.

Select the 50% duty cycle and verify that the output falls between 8.0 and 12.0 watts and LED lights		xxxx
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3.2X only

Set up the treatment: 10cm²/1MHz, 100%, 10:00, 30 Watts Total.

Select the 50% duty cycle and verify that the output falls between 12.0 and 18.0 watts and LED lights		xxxx
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Appearance and Safty Tests

1. Check all labeing serial number and manufacturing date.
2. Verify that the soundhead cable strain relief nut is tight.

All 1st checks completed by _____