

# MRE PHANTOM USER GUIDE

MAGNETIC RESONANCE ELASTOGRAPHY

## CONTENTS

Use of Symbols	2
Introduction	2
Set up Procedure	3
Web Resources	7

## USE OF SYMBOLS



Manufacturer



MR Safe



Refer to instruction manual

# INTRODUCTION

Resoundant's MR Elastography (MRE) Phantom is made from a homogeneous elastic material permanently sealed in a high impact container. The Phantom is ready to set up and scan.

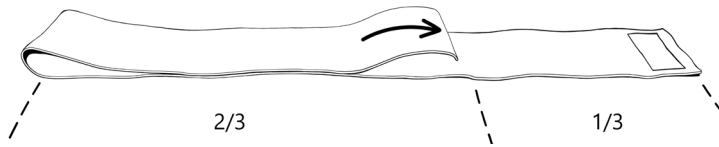
The MRE Phantom serves several purposes including verification that all MRE system elements are functioning properly: confirming that shear waves are generated, wave images and elastogram images are created, and a stiffness value is being calculated and displayed. The stiffness value for this phantom should be between 2.0kPa and 4.0kPa and may increase slightly (5%-10%) per year as the elastic material continues to cure. This is normal and has no impact on its function.

The MRE Phantom is a valuable aid to allow the installation engineers to easily verify the MRE system is installed properly and functioning correctly and can assist the service engineer or scientist in trouble shooting should there be any concern regarding the operational status of the MRE system. This verification can be done periodically by the MRE operators should they choose to do so. Additionally, the phantom is a convenient device to scan as part of a training exercise for new users.

Use the following procedure to position the phantom in a standard head coil. The setup procedure will be similar systems and head coils from all MR manufacturers.

## MRE PHANTOM SET UP PROCEDURE

1a



Fold the Resoundant Belt so approximately  $2/3$  is overlapped.

1b

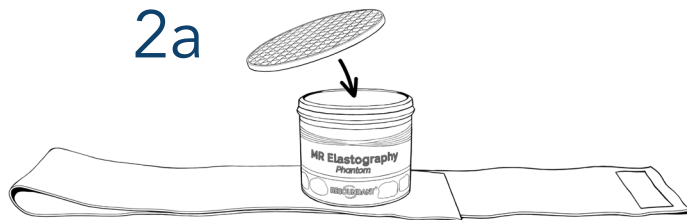


Place the Phantom in the center of the folded belt.

### Care and Handling

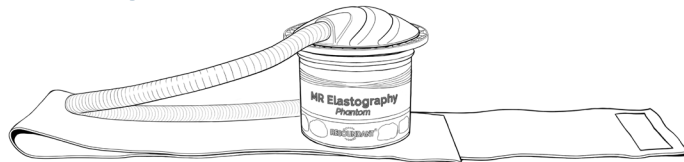
Do not remove seal or lid from the MRE Phantom. For longest life, store the MRE Phantom at room temperature, away from heat, moisture and direct sunlight. Please dispose of the MRE Phantom in accordance with local regulations or contact Resoundant via email at [mreinfo@resoundant.com](mailto:mreinfo@resoundant.com) for instructions.

2a



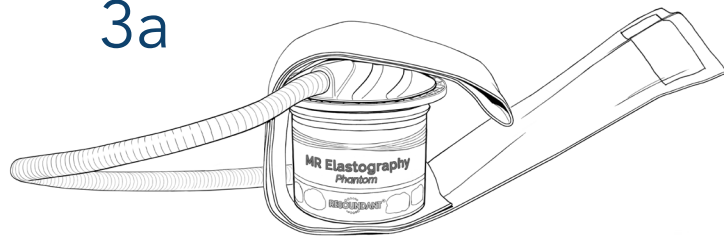
Place the silicone friction pad on top of the Phantom.

2b



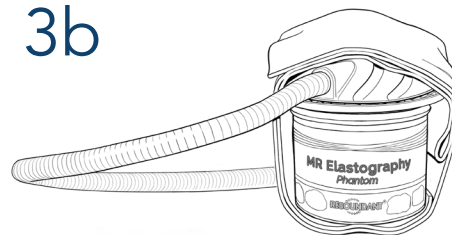
Place the Passive Driver on top of the silicone friction pad.

3a



Fold the Resoundant belt over the Phantom, Friction pad, and Passive Driver.

3b



Firmly secure the belt around the phantom bundle.




Place the phantom bundle in the head coil. Use a simple sponge to level the bottom of the head coil as needed.

The Phantom is now ready to scan.




Go to **resoundant.com/phantom-guide** to access specific phantom scanning protocols for various MRI systems.



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# Phantom Scan Guide

## Phantom Set-up Guides

Please select a manufacturer and system:

GE Healthcare

1.5T3.0T

Philips

1.5T3.0T

Siemens

1.5T3.0T



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