

# Clear-Lead™ Mobile Barriers

---

## OPERATION MANUAL

042-580

042-582

042-585



# BIODEX

Biorex Medical Systems, Inc.

20 Ramsey Road, Shirley, New York, 11967-4704, Tel: 800-224-6339 (Int'l 631-924-9000), Fax: 631-924-9241, Email: [info@biorex.com](mailto:info@biorex.com), [www.biorex.com](http://www.biorex.com)

---

This operation manual covers safe operation of the Clear-Lead™ Mobile Barriers 042-580, 042-582, and 042-585.

Additional information and resources are available upon request or directly from the Biodex website, <http://www.biodex.com>.

If the desired information is not found, contact a local distributor or Biodex directly at [supportservices@biodex.com](mailto:supportservices@biodex.com)

Thank you,

Biodex Medical Systems, Inc.

## Contact information



**Manufactured by:**

Biodex Medical Systems, Inc.  
20 Ramsey Road, Shirley, New York, 11967-4704  
Tel: 800-224-6339 (Int'l 631-924-9000)  
Fax: 631-924-9241  
email: [supportservices@biodex.com](mailto:supportservices@biodex.com)  
[www.biodex.com](http://www.biodex.com)




















---

# Table of Contents

Definition of Symbols .....	4
Before Proceeding .....	5
Important Safety Information .....	5
1. Introduction.....	6
Intended Use .....	6
Indications for Use .....	6
2. Assembly Instructions .....	7
Directions for Use.....	7
3. Maintenance .....	11
General Maintenance Procedures .....	11
Disposal.....	11
4. Specifications .....	12

# Definition of Symbols

The following symbols and their associated definitions are used and implied throughout this manual.

Symbol	Definition
	Carefully read these instructions prior to use
	Operating Instructions
	Caution
	General Warning
	General Mandatory Action
	Dangerous Voltage
	“On” Power
	“Off” Power
	Pinch Point
	Earth (ground)
	Alternating Current
	Fuse
	USB Connector/Cable
	Non-Ionizing Electromagnetic Radiation
	Waste in Electrical Equipment
	Disposal Classification and Identification of Equipment
	Date of Manufacture
	Manufactured By
	Type B Applied Part

---

## Before Proceeding



**NOTE:** The warnings, cautions and instructions provided in this manual must be read, followed and kept available for consultation at all times. Observing the information, instructions and procedures presented throughout this manual is essential for using this product both properly and safely.



**SPECIFIC CAUTIONS:**

- Allow only qualified, trained personnel to operate or service this product.
- If the equipment is used in a manner other than specified in this operation manual, the protection provided by the equipment may be impaired and results could be compromised.



**CAUTION:** Modifications to this product are only permitted by the manufacturer. Unauthorized modification of the product can result in hazards to the operator and patient, and will void the manufacturer's warranty. Do not modify this equipment without authorization from the manufacturer.

For additional technical advice, service, or educational information, contact:

**Biodex Medical Systems, Inc.**  
20 Ramsey Road  
Shirley, New York 11967-4704  
1-800-224-6339 (Int'l 631-924-9000)  
[customerservice@biodex.com](mailto:customerservice@biodex.com).

## Important Safety Information



**CAUTION:** Federal Law restricts this device to sale by or on the order of a physician, sonographer or other licensed professional.



Before using this equipment, read the entire IFU carefully. Failure to read the manual may result in user error or injury. Be sure to save all provided documents for future reference.



Make certain to understand all warning and caution labels as explained in the Before Proceeding section of this manual.



This product should be used only as specified in the operation manual.



**CAUTION:** Biodex devices are designed for use in a client environment.

---

# 1. Introduction

## **Intended Use**

Clear-Lead™ Mobile Barriers are intended to supply a minimum of 0.5mm lead equivalence radiation protection.

## **Indications for Use**

The product is typically used around any imaging procedures using ionizing radiation, e.g., fluoroscopy, x-ray, CT, mammography.

The greatest advantage of these barriers over others on the market is the time they save behind the scenes. Their sleek design exposes no hardware, nooks or crannies while the opaque section of the shield is covered with stainless steel — the result, a smooth, easy-to-clean finish.

Grab-handle edges and large casters make them effortless to maneuver. Clear-Lead™ Mobile Barriers offer large, durable, and shatter resistant protection wherever it is needed.

## **Contraindications**

- Is not compliant or compatible with procedures using non-ionizing radiation.

---

## 2. Assembly Instructions

### Required Tools and Supplies:

- 1/4 Allen wrench (Provided)
- 8 Flat-head screws (Provided)

### Directions for Use

**NOTE:** Do not remove the protective paper before completing assembly to avoid accidental scratches.

1. Unpack and locate:
  - a. One shield sub-assembly.
  - b. Two leg sub-assemblies with casters.
  - c. One bag containing the parts numbered 3-8 on the schematic drawing.
2. Lay the shield sub-assembly on a flat surface (e.g., a table) with the bottom extending over the edge (see Figure 2.1).

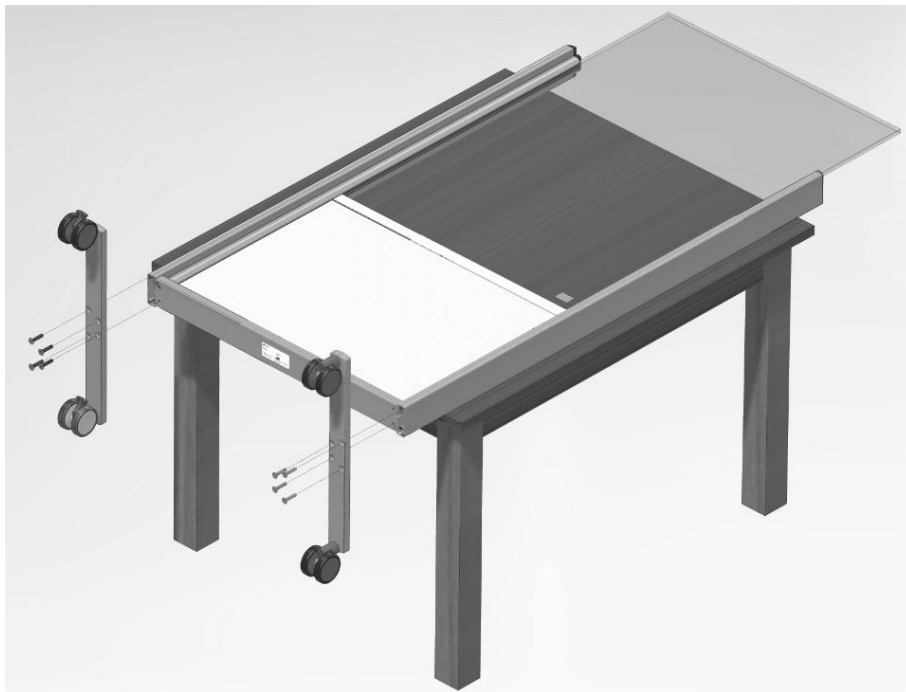


Figure 2.1. Shield Assembly Placed on Flat Surface for Assembly.

3. Using the provided 1/4" Allen wrench, insert the flat-head screws as illustrated on the drawing (see Figure 2.2).
4. Fully tighten all flat-head screws.
5. Place the assembled barrier upright on its casters and carefully remove the masking paper from both sides of the window.

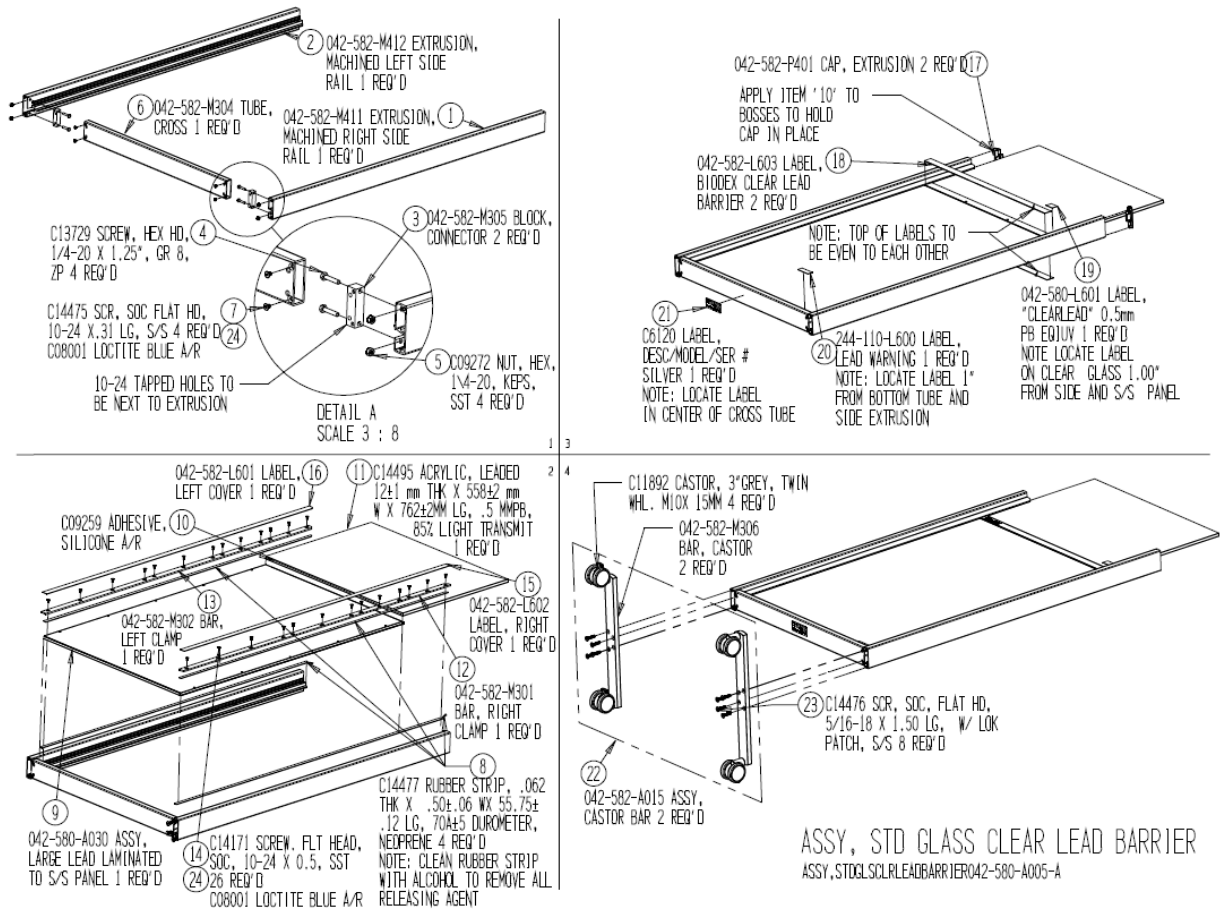


Figure 2.2. Standard Clear-Lead Mobile Barrier Assembly Drawing



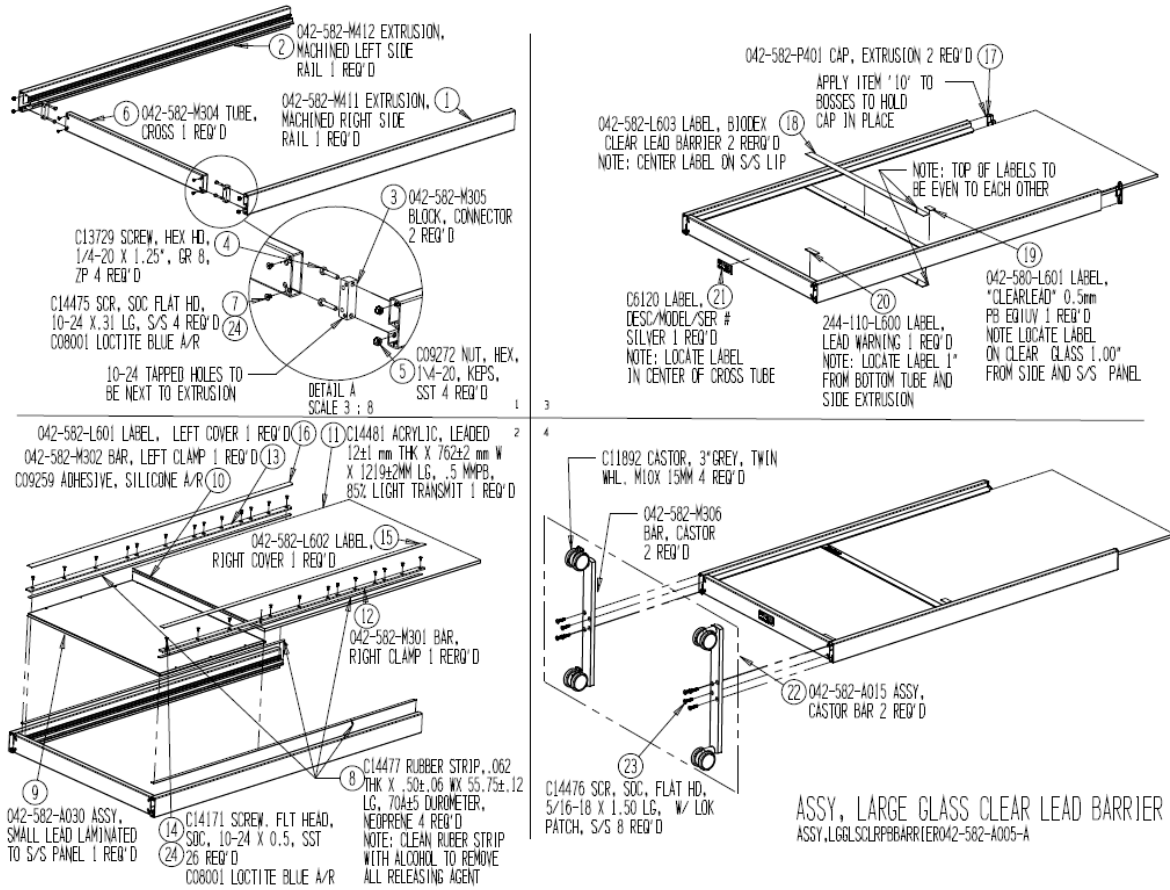


Figure 2.3. Large Clear-Lead Mobile Barrier Assembly Drawing

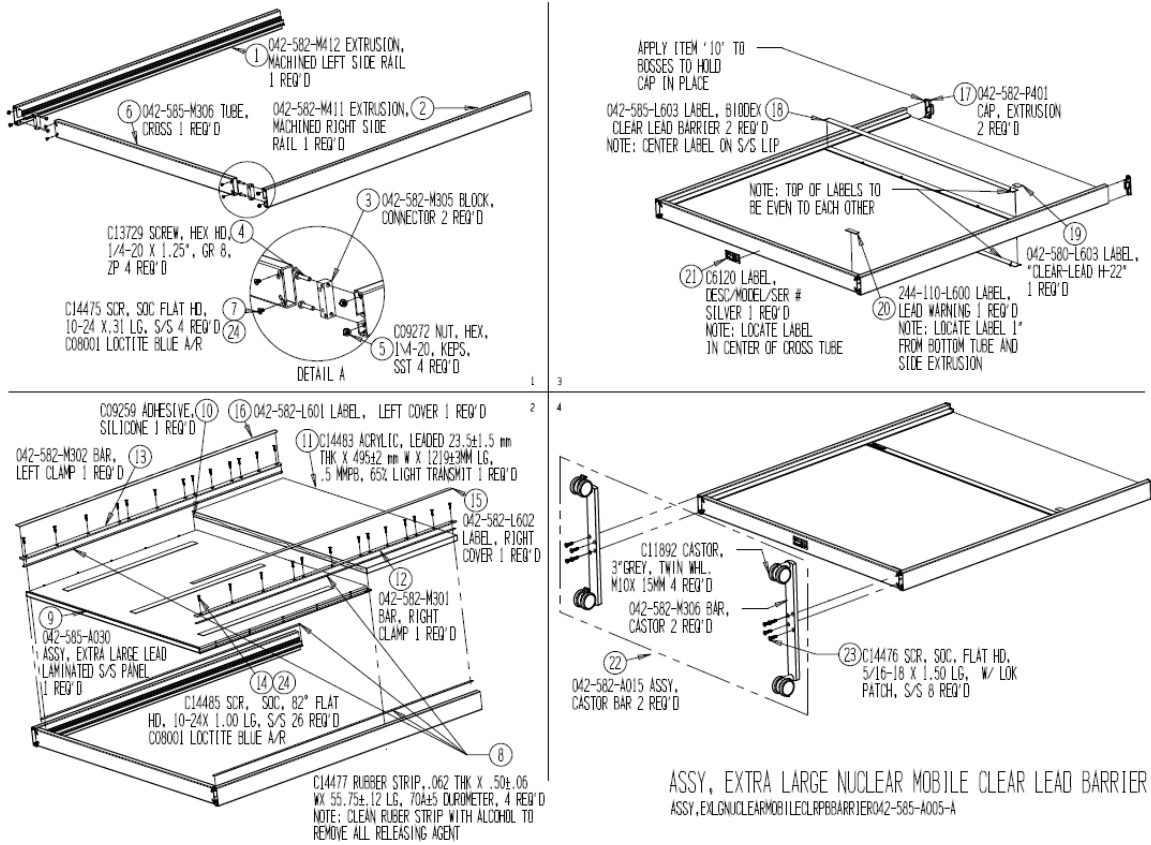


Figure 2.4. Extra Large Clear-Lead Mobile Barrier Assembly Drawing

---

## 3. Maintenance

### General Maintenance Procedures

1. Clean the panel with a soft cloth using water or ethanol if necessary. Do not leave the panel wet; dry it with a soft cloth.
2. Avoid any abrasive materials coming in contact with the Clear-Lead™ Barrier panel.
3. Scratches can be removed by using a quality acrylic polish such as Novus Polish #2.



**CAUTION:** Avoid tipping the barrier more than 10 degrees from perpendicular as it may fall over.

### Disposal

An appropriate waste disposal company is to be contacted (i.e., the local collection point for waste separation). Properly dispose of the device at the end of its service life:

- The device packaging is disposed of through resource recycling.
- The metal parts of the machine go to scrap metal disposal.
- Plastic parts are disposed of as hazardous waste.



***The disposal of equipment must be in accordance with the respective national regulations.***

***Wear parts are considered hazardous waste! After being replaced, wear parts must be disposed of according to country-specific waste laws.***

---

## 4. Specifications

### **042-580 Clear-Lead Mobile Barrier, Standard Window**

**Overall Dimensions:** 33" w x 73.62" h (84 x 187 cm)

- **Window:** 30" w x 22" h (76 x 56 cm)
- **Opaque Panel:** 30" w x 46.25" h (76 x 117 cm)
- **Shielded Area:** 30" w x 68.25" h (76 x 173 cm)

**Shielding:**

- **Window:** 0.5 mm lead equivalency
- **Opaque Panel:** 0.8 mm lead

**Leg Depth:** 10.5" (26.7 cm)

**Casters:** Four hospital grade; two locking, two non-locking

**Weight:** 103 lb (47 kg)

**Warranty:** One year parts and labor

### **042-582 Clear-Lead Mobile Barrier, Full Window**

**Overall Dimensions:** 33" w x 73.62" h (84 x 187 cm)

- **Window:** 30" w x 46" h (76 x 116.8 cm)
- **Opaque Panel:** 30" w x 22.25" h (76 x 56.5 cm)
- **Shielding Area:** 30" w x 68.25" h (76 x 173 cm)

**Shielding:**

- **Window:** 0.5 mm lead equivalency
- **Opaque Panel:** 0.8 mm lead

**Leg Depth:** 10.5" (26.7 cm)

**Casters:** Four hospital grade; two locking, two non-locking

**Weight:** 97 lb (44 kg)

**Warranty:** One year parts and labor

### **042-585 Clear-Lead Mobile Nuclear Medicine Barrier**

**Overall Dimensions:** 51.12" w x 61.25" h (130 x 155.5 cm)

- **Window:** 48" w x 19.5" h (122 x 49.5 cm)
- **Opaque Panel:** 48" w x 36.5" h (122 x 92.7 cm)
- **Shielding Area:** 48" w x 56" h (122 x 142.3 cm)

**Shielding:**

- **Window:** 1.0 mm lead equivalency
- **Opaque Panel:** 1.1 mm lead

**Leg Depth:** 10.5" (26.7 cm)

**Casters:** Four hospital grade; locking

**Weight:** 151 lb (68 kg)

**Warranty:** One year parts and labor

**BIODEX**  
Biodex Medical Systems, Inc.

20 Ramsey Road, Shirley, New York, 11967-4704, Tel: 800-224-6339 (Int'l 631-924-9000), Fax: 631-924-9241, Email: info@biodex.com, www.biodex.com

