

GF Health Products, Inc.
Basic Otoscope/Ophthalmoscope Kit
Model 5100X
Instructions for Use

Note: The most current version of these instructions can be found online at www.grahamfield.com

IMPORTANT SAFETY INFORMATION:
PLEASE READ

- ⚠ **WARNING: Important! Read and understand these instructions before assembling or using the 5100X Basic Otoscope/Ophthalmoscope Kit. If you do not understand any part of these instructions, contact a healthcare professional for direction in the use of this product. If the otoscope/ophthalmoscope is not properly assembled and adjusted, personal injury and/or damage to the otoscope/ophthalmoscope could result.**
- ⚠ **WARNING: If components are damaged or missing, contact your dealer immediately. DO NOT use substitute parts. Use only Graham-Field replacement parts. Non-Graham-Field replacement parts could cause personal injury and/or damage to the otoscope/ophthalmoscope.**
- ⚠ **WARNING: GF Health Products, Inc. assumes no responsibility for any damage or injury caused by improper assembly or use of this product.**

UNPACKING

Check for any obvious damage to the carton or its contents. If damage is evident, DO NOT USE. Contact carrier / distributor for further instruction.

Components

The complete set includes:

1. Otoscope
2. Ophthalmoscope
3. Five reusable specula including
 - a. Aural: Four different diameters
 - b. Nasal: One 9 mm diameter

INTENDED USE

The intended use of the Model 5100X Basic Otoscope/Ophthalmoscope Kit is examination of the nose, ear canal, or fundus (retina) of the eye.

- ⚠ **WARNING: This instrument should be used only by a medical professional trained in its use.**

SETUP

Install batteries, otoscope and ophthalmoscope

Unscrew the handle by turning it counter-clockwise. Insert two AA batteries, ensuring that polarities are correct. Replace by turning handle clockwise.

Power on/off, otoscope and ophthalmoscope

Push red switch up for on and down for off.

- ▲ **CAUTION: To avoid premature lamp failure and battery drainage, always turn otoscope and ophthalmoscope off when not in use.**

USE OF OTOSCOPE

This kit includes five specula, four aural specula of differing diameters and one nasal speculum of 9 mm diameter, one of which will be suitable for examination.

A magnifying lens of power 10 diopters (magnification x 3.5) is supplied with the otoscope head, in a swinging mount which enables it to be partially or wholly withdrawn for instrumentation.

USE OF OPHTHALMOSCOPE

Rekoss Disc

The Rekoss Disc contains a range of lenses, used to compensate for refractive errors, whose powers vary from -40 diopters to +25 diopters. To select the correct dioptric power, rotate the wheel until optimum results — a clear view of the optic disc and the associated blood vessels — are obtained. An indicator showing the dioptric power of the lens in use is visible through the window in the lower part of the ophthalmoscope head: Positive powers (convex) are in red, and negative powers (concave) in black.

Eye Examination

To Doctor: Examination of the eye is best carried out in a dark room. Set the Rekoss Disc to 0 (or the closest lens possible to the user's refractive error). To examine the patient's right eye, position yourself on the right side of the patient with the ophthalmoscope, held with your right hand, close to the patient's right eye. At a distance of ~ 15 cm (5.9 inches) and at an angle of ~ 30°, direct the beam of light at the patient's eye, instructing the patient to look straight ahead. At this point a red circular coloration should be visible in the patient's fundus; gradually move closer, up to a distance of ~ 3 cm (1.2 inches) at which point the retinal details should appear clearly and in focus.

If this is not so, rotating the Rekoss Disc should bring them into focus, unless opacities in the patient's media prevent a clear view.

To examine the patient's left eye, reverse the procedure and use your left eye. Once a clear magnified image is obtained, the retina may be examined in more detail. Movement of the ophthalmoscope and/or instructing the patient to look in a specific direction will facilitate examination of peripheral areas.

REPAIR AND MAINTENANCE

▲ **CAUTION: Neither otoscope nor ophthalmoscope has user-serviceable parts. Other than installing and removing batteries or changing the lamp, do not take it apart. In the event of damage or malfunction, contact the authorized Graham-Field distributor from whom you purchased the otoscope/ophthalmoscope.**

▲ **CAUTION: To prevent handle corrosion, remove the batteries as soon as they are discharged and when the otoscope or ophthalmoscope will be stored for an extended period of time.**

Replacing the ophthalmoscope lamp

1. Unscrew the ophthalmoscope head from the battery handle.
2. Unscrew the collar on the lower end of the ophthalmoscope, thereby permitting the removal of the lamp holder.
3. Unscrew and discard the old lamp.
4. Use a clean cloth to lightly clean the glass portion visible in the new lamp, in case any dust has settled on it in transit.
5. Screw the new lamp into the lamp holder.
6. Replace the lamp holder in the ophthalmoscope collar.
7. Screw the collar back on, pushing gently on the lamp holder as far as it will go.

Replacing the otoscope lamp

1. Unscrew the old lamp from the otoscope head. Discard the old lamp.
2. Use a clean cloth to lightly clean the glass portion visible in the new lamp, in case any dust has settled on it in transit.
3. Screw the new lamp into the otoscope head.

Cleaning

Clean otoscope and ophthalmoscope by gently wiping with a soft, clean cloth.

Clean otoscope specula by wiping with a soft, clean cloth dampened with isopropyl alcohol.

Sterilizing otoscope specula

Otoscope specula may be sterilized in boiling water or an autoclave whose temperature does not exceed 253°F (123°C).

REPLACEMENT PARTS AND ACCESSORIES (NOT INCLUDED)

Please contact your distributor or visit www.grahamfield.com	
1230K	Replacement lamp, otoscope
1230L	Replacement lamp, ophthalmoscope
1230I	Replacement specula S, M and L, aural
1230X	Replacement speculum 9 mm dia, nasal
1229	Disposable specula (requires use of adaptor 1229-2)
1229-2	T-Slot adaptor for disposable specula

LIMITED WARRANTY

GF Health Products, Inc. ("Graham-Field") offers a one-year limited warranty against manufacturer's defects on the Model 5100X Basic Otoscope/Ophthalmoscope Kit. If a product is deemed to be under warranty, GF Health Products, Inc. shall provide, at its option, (1) replacement of any defective part or product or (2) a credit of the original selling price made to GF Health Products, Inc.'s initial customer. The warranty does not include any labor charges incurred in replacement part(s) installation or any associated freight or shipping charges to GF Health Products, Inc.

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Manufactured for:
GF Health Products, Inc.
Made in UK



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