

Use, Care and Maintenance
Manual for use with
Cross Canada 11-060 2.5V
LED ENT Ophthalmoscope
& Otoscope Diagnostic Set,
With 12 Various Diagnostic
Instruments



Cross Instruments Inc.

4004 Aspen Drive East N.W. Edmonton, AB T6J 2A8, Canada Tel. (780) 669-1506 Fax. (780) 628-4156 Email:crossinstruments.com@gmail.com URL: www.crossinstruments.com



Thank you for choosing a Cross Canada® Eye, Ear, Nose and Throat (EENT) Diagnostic Instrument Set. We're proud of the care and quality that goes into the manufacture of each and every diagnostic instrument that bears our name. Every component has been carefully designed to maximize performance.

Latex Statement - This device and all accessories are not made with natural rubber latex.

Cleaning and Disinfection:

- A. Clean the surface of device with 75% alcohol solution at least once a week, avoiding the magnifying glass (viewing window) in the head. And corrosive or polishing detergent is prohibited.
- B. Disinfect the tips of otoscope with saturated steam for 20 minutes at 134°C.

Attention

Do not soak, autoclave or let water dip into the device!

General

Ophthalmoscope: The ophthalmoscope is a handheld, battery-powered device containing illumination and viewing optics intended to examine the media (cornea, aqueous, lens, and vitreous) and the retina of the eye. It is intended to be used by a trained healthcare professional.

Otoscope: The otoscope is a handheld battery powered device with magnifying system that provides illumination of the ear canal and tympanic membrane.

Nasal Speculum Adapter for Otoscope When using the otoscope attachment with a nasal speculum adapter, the device allows for direct examination of the nares while maintaining a line of sight.

Bent Arm Illuminator: The bent arm illuminator is a handheld light that can be used to illuminate a patient's mouth and upper throat during an examination. The bent arm illuminator is a non-invasive light source designed to facilitate the examination of the oropharynx area. It can also be used to assist in assessing papil- lary light response and for transillumination of the sinuses. When used with laryngeal mirrors, it allows for non-invasive, indirect visualization of the hypopharynx.

Battery Handle: This EENT Diagnostic Set is equipped with a "C" cell knurled chrome handle with rotating bezel on/off switch.

Use and Maintenance Battery Replacement

Handle requires 2 "C" cell batteries.

Remove the knurled cap at the base of the handle by turning counterclockwise. Insert two fresh "C" cell batteries (not included) with the positive (+) polarity towards the instrument head. Replace battery compartment cap by turning clockwise. (Fig. 1).

Removing and Attaching the Instrument Head

All instrument heads feature a bayonet style mount. To remove, push down firmly and rotate counterclockwise gently. To engage, align slots on base of instrument head with tabs on bayonet.

Push head and twist clockwise gently until engaged. (Fig. 2).

Turning the Instrument On

o illuminate, rotate the rotating bezel on/off switch clockwise until the lamp powers on. Slide the switch in the opposite direction to turn off. (Fig. 3).



Handle Care and Maintenance

Periodically check the condition of the batteries, making sure there is no sign of corrosion or oxidation. Always replace BOTH batteries. Alkaline batteries are recommended. Remove batteries from handle if instrument will not be used for an extended period of time.

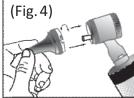
Instrument Heads

Otoscope Head - This instrument head is designed for examination of the ear canal specifically the external acoustic duct and tympanic membrane. The head comes complete with a 3x removable viewing lens, insufflator fitting, and 3 reusable specula (standard models with 2.5mm, 3.5mm, and 4.5mm specula. Also, included is a disposable specula adaptor and a tube containing five (5) of 3mm and five (5) 4mm disposable specula.

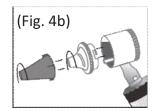
Attaching the Specula

Push the flanged end of the desired speculum onto the instru- ment head aligning the slot in the speculum flange with the rivet at the top of the instrument head and twist clockwise to engage. Reverse procedure to remove. (Fig.4)

NOTE: Otoscope must be used with specula.



Using Disposable Specula Attach the disposable specula adaptor, in the same manner as the reusable specula. Attach disposable speculum by pushing the flanged end of the desired speculum onto the socket and twist counterclockwise to engage (Fig.4b). Reverse procedure to remove and discard after each use.



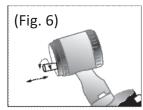
Removing Viewing Iens

To remove the Viewing lens during an examination, rotate lens Closckwise or counterclockwise. Reverse procedure to attach. (Fig. 5).



Replacing LED Lamp

Remove speculum. Twist lamp counterclockwise to remove.
Replace with Cross Canada 11-118
LED Lamp. Reverse procedure to install new lamp. (Fig. 6).



Insufflator

The unit comes equipped with an insufflator fitting already attached. The insufflator bulb and tubing can be purchased senarately from Cr



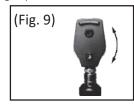
separately from Cross Instrument Inc. (Fig. 7).

Ophthalmoscope

This instrument head is equipped with 24 lenses from -20 to +15 diopters.

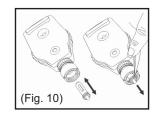
Corrective lens selection:

Unit is equipped with 24 corrective lenses from +15 to -20 diopters (negative lenses in red). To select, rotate the corrective lens selection wheel at either side of the instrument head. Selected lenses can be viewed in the illuminated panel on practitioner's side of the instrument. (Fig. 9).



Replacing LED Lamp:

Remove the Ophthalmoscope head by turning counterclock- wise. Grab end of lamp from inside base of Ophthalmoscope head and remove. Replace with new lamp (REF: 11-119), taking care not to touch the glass, and align lamp metal guides on side of lamp with grooves in lamp socket. (Fig. 10).



Bent Arm Illuminator Head:

This instrument head is designed for examination of the oral cavity in conjunction with the tongue depressor blade, or laryngeal mirror attachments.

Supplied attachments include a reusable tongue blade, adapter for disposable tongue blade, #4 laryngeal mirror, and #5 laryngeal mirror. These attachments are supplied with complete diagnostic set.

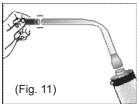
Attaching any of the supplied Attachments

Align slot on attachment with pin on top surface of bent arm illuminator and push until secure. (Fig. 11). **Replacing lamp** Remove by turning counterclockwise. Reverse procedure to replace.

Nasal Specula Attachment:

This instrument head attachment is designed for examination of the

nasal cavity. It is used in conjunction with the Otoscope instrument head.



Attaching Nasal Specula

Attach Otoscope head to the battery handle. Remove ear speculum or adapter. Attach Nasal Speculum by pushing the flanged end of the speculum onto the instrument head aligning the slot in the speculum flange with the rivet at the top of the instrument head and twist clockwise to engage. Reverse procedure to remove.

(Fig. 12).

