

Thank you for purchasing RYOBI™ Phone Works™

If you need assistance
DO NOT RETURN TO THE STORE
Please contact us at 1-877-578-6736

This app is optimized for:

iOS versions 6.0 and higher · Android versions 4.0 and higher

For a full list of compatible phones please visit

www.ryobitools.com/phoneworks

ES5000 INSPECTION SCOPE IMPORTANT SAFETY INSTRUCTIONS

WARNING!

READ AND UNDERSTAND ALL INSTRUCTIONS. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

- **Read operator's manual carefully. Learn the applications and limitations, as well as the specific potential hazards, related to this device.** Following this rule will reduce the risk of electric shock, fire, or serious injury.
- **Do not operate battery devices in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Battery devices create sparks which may ignite the dust or fumes.
- **Do not disassemble the device.** Contact with internal parts may increase the risk of electric shock or cause damage to the device.
- **Do not use on a ladder or unstable support.** Stable footing on a solid surface enables better control of the device in unexpected situations.
- **Do not store the device in an area of high heat or humidity. Do not expose the device to extended high heat from the sun (such as on a vehicle dashboard.) To reduce the risk of serious personal injury, do not store outside or in vehicles.** Damage to the device or the battery can result.
- **Do not expose device to rain or wet conditions.** Water entering a device will increase the risk of electric shock.
- **Use the device in accordance with these instructions and in the manner intended for the device, taking into account the environmental conditions and the work to be performed.** Use of the device for operations different from those intended could result in a hazardous situation.
- **Do not use the inspection scope for diving or any other prolonged underwater use.**
- **The plastic housing is not waterproof. The camera cable is waterproof to 1M.**
- **Ensure the device is disconnected and turned off before inserting or changing batteries.**
- **Do not mix old and new batteries or different brands of batteries.**
- **Remove batteries from the device when not in use for an extended time.**
- **Always replace the alkaline battery with the same type of alkaline battery.** Use of any other battery packs may create a risk of injury and fire.
- **This device should not be operated unless the battery compartment is closed.**
- **Do not place battery devices or their batteries near fire or heat.** This will reduce the risk of explosion and possibly injury.
- **Do not crush, drop or damage battery. Do not use batteries that have been dropped or received a sharp blow.** A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.
- **Batteries can explode in the presence of a source of ignition, such as a pilot light.** To reduce the risk of serious personal injury, never use any battery device in the presence of open flame. An exploded battery can propel debris and chemicals. If exposed, flush with water immediately.
- **Under extreme usage or temperature conditions, battery leakage may occur. If liquid comes in contact with your skin, wash immediately with soap and water. If liquid gets into your eyes, flush them with clean water for at least 10 minutes, then seek immediate medical attention.** Following this rule will reduce the risk of serious personal injury.
- **Save these instructions.** Refer to them frequently and use them to instruct others who may use this device. If you loan someone this device, loan them these instructions also.

App images may vary.

SYMBOLS

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYMBOL	SIGNAL	MEANING
	DANGER:	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING:	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	CAUTION:	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	NOTICE:	(Without Safety Alert Symbol) Indicates important information not related to an injury hazard, such as a situation that may result in property damage.

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

SYMBOL	NAME	DESIGNATION/EXPLANATION
	Safety Alert	Indicates a potential personal injury hazard.
	Read Operator's Manual	To reduce the risk of injury, user must read and understand operator's manual before using this product.
V	Volts	Voltage
min	Minutes	Time
—	Direct Current	Type or a characteristic of current

FCC COMPLIANCE

NOTE: This device complies with part 15 of the FCC RULES and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

FEATURES

- Attaches directly to your phone using the clip (included)
- Take pictures of the images captured by the scope
- File your video and pictures
- Share saved data
- View dark areas with the 3-stage LED adjustment
- Record a voice note in the image or video
- Send live video to your phone



ICON	DESCRIPTION / FUNCTION
	Main RYOBI™ Phone Works™ app home screen
	LED Brightness LED On/Off
	Take a picture or video
	Device battery charge level
	Set new password

ICON	DESCRIPTION / FUNCTION
	Notes
	File cabinet (stored projects)
	Camera
	Video camera
	Audio note
	Settings

App images may vary.

ASSEMBLY

⚠ WARNING:

Do not use this product if it is not completely assembled or if any parts appear to be missing or damaged. Use of a product that is not properly and completely assembled or with damaged or missing parts could result in serious personal injury.

⚠ WARNING:

Do not attempt to modify this product or create accessories not recommended for use with this product. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

If any parts are damaged or missing, please call 1-877-578-6736 for assistance.

OPERATION

INSTALLING/REPLACING THE BATTERIES

See Figure 1.

Three AA batteries are preinstalled. Before first use, locate and remove the red pull tab to activate the batteries.

- Disconnect the device from your smartphone.
- Slide the battery cover off.
- Install batteries according to the polarity indicators.
- Replace the battery cover, making sure it is secure before use.
- Do not operate the device without the battery cover installed.

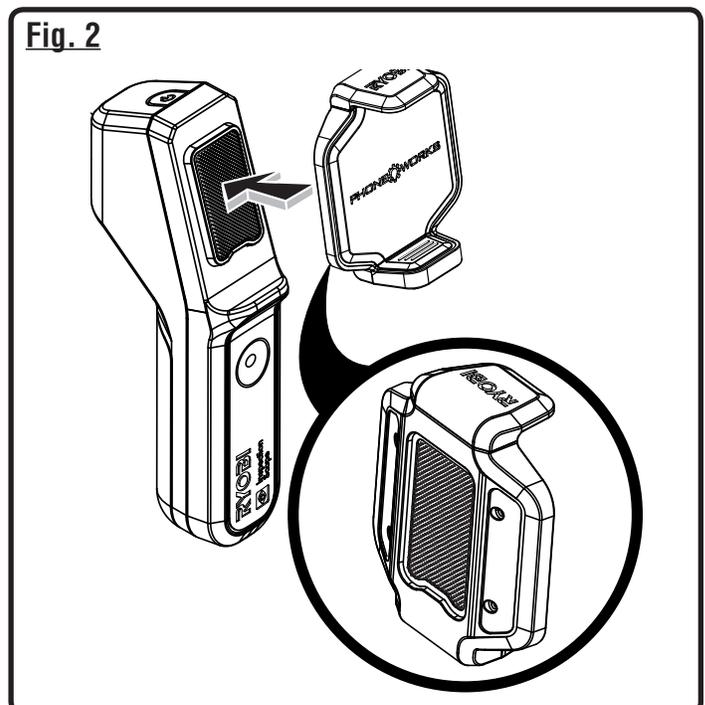
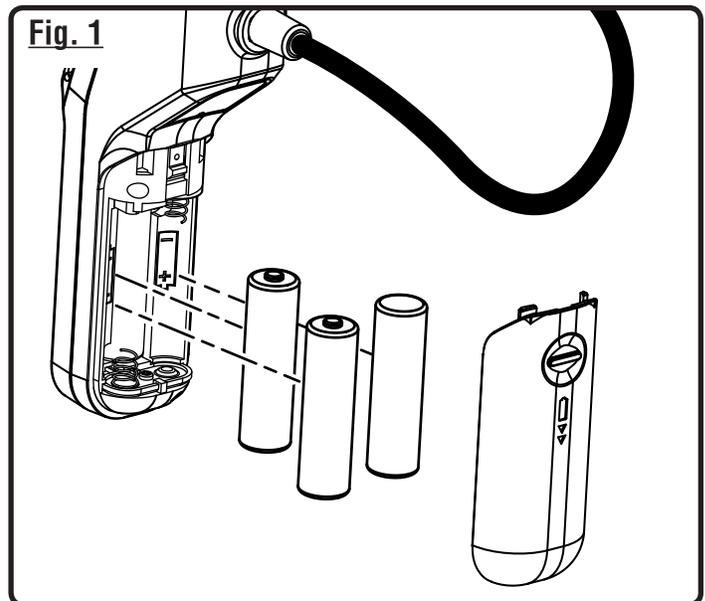
NOTE: Remove the battery for storage when device will not be used for long periods of time.

ATTACHING THE CLIP

See Figure 2.

The clip expands to fit most smartphones. Always install the clip before attaching your smartphone.

- Align the hook-and-loop sections of the inspection scope to the matching portion of the clip.
- Make sure the two notches match and line up.
- With both thumbs, press the clip in the middle until you hear a “click”.
- Make sure clip is securely attached to the inspection scope.



App images may vary.

OPERATION

TURNING THE INSPECTION SCOPE ON/OFF

See Figure 3.

- **To turn the device On**, press and hold the power button until the button starts to light up green (approximately 5 seconds).
- The button should begin flashing within a few seconds. When it stops flashing and turns solid green, the scope is ready to connect.
- **To turn the device Off**, press and hold the power button for approximately 5 seconds until the button starts a flashing red pattern. It will turn **Off** in a few seconds.

ATTACHING THE SMARTPHONE TO THE INSPECTION SCOPE

See Figure 4.

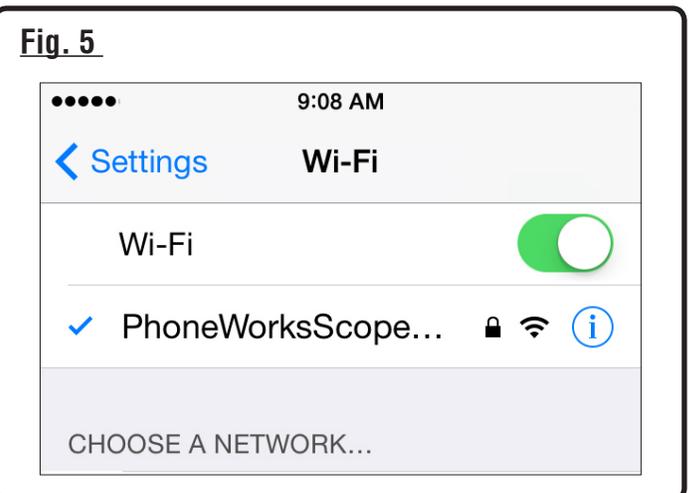
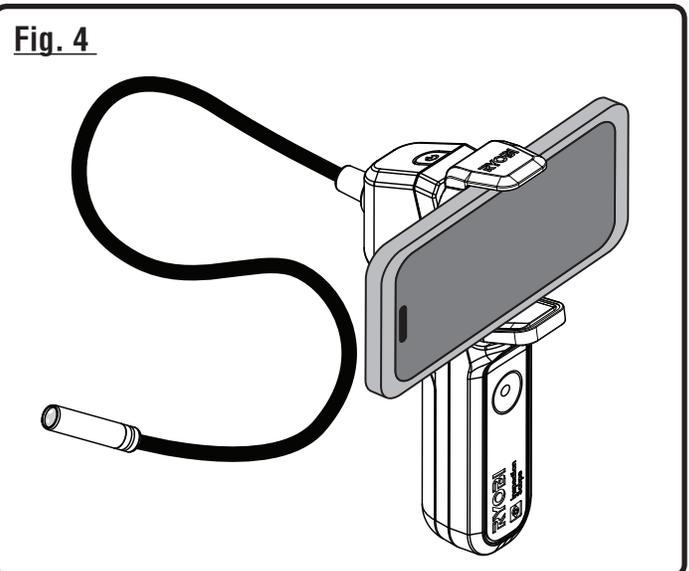
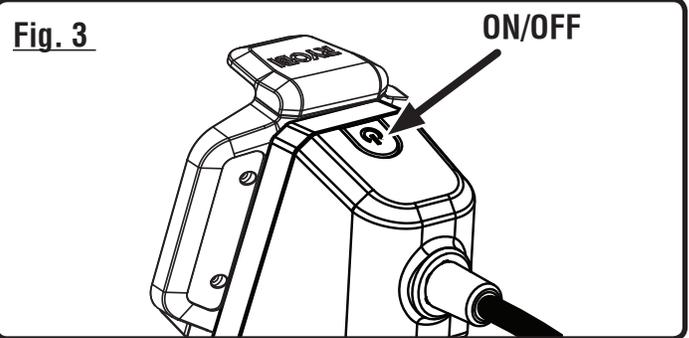
- Insert the smartphone into the clip and make sure it is securely attached before use.

CONNECTING THE INSPECTION SCOPE WITH YOUR SMARTPHONE

See Figure 5.

- Turn the device **On**.
- On your phone, turn the wireless network **On** and open to the wireless connection screen.
- Select the network named “**PhoneWorksScope...**” with some trailing letters and numbers. Enter the default password 12345678 or the password you have set as described in *Setting a New Wireless Password*.
- Once the phone indicates that it is connected to the new network, go the RYOBI™ Phone Works™ App on your phone.
- Select and open the RYOBI™ Phone Works™ App.
- Open the INSPECTION SCOPE app segment. The video feed should start within a few seconds.

NOTE: Your phone may not have internet access while it is connected to the inspection scope.



OPERATION

SETTING A NEW WIRELESS PASSWORD

See Figure 6.

Setting an individual password is done through the app. A valid password must be from 8 to 63 characters.

- Turn the device **On** and connect to the **wireless** network **PhoneWorksScope...**
- Open the RYOBI™ Phone Works™ App and the INSPECTION SCOPE app segment.
- Click the **Set New Password** icon.
- Enter the new password and click **OK**.
- If the password is accepted, **you must turn the device off to reset. When the device is turned on next**, the new **wireless** password will be in effect.

NOTES:

- The password must be 8 to 63 characters. Valid characters include lower case and upper case English letters, numbers, spaces, and many common special characters.
- If the password is not accepted, the old password will still be in effect; try a different password.
- If your phone is configured to **remember wireless passwords by forgetting the previously used network**, you may need to update or clear the saved password before your phone can connect to the **PhoneWorksScope...** network with the new password.
- If you forget the password, it can be easily reset to the default. See *Resetting to the Manufacturer's Password*.

RESETTING TO THE MANUFACTURER'S PASSWORD

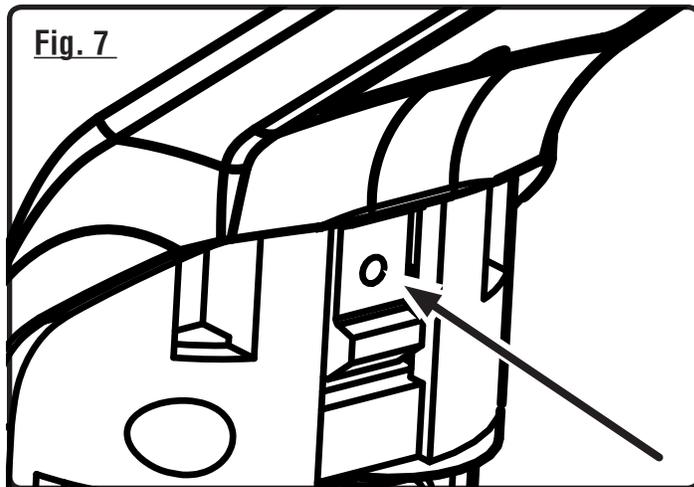
See Figure 7.

- Turn the device **On**.
- Open the battery cover.
- Locate the small hole in the latch.
- Insert a paper clip into the hole and use it to depress the switch inside for at least 15 seconds until the device shuts down or resets.
NOTE: Use a paper clip no more than 1mm in diameter. Larger sizes will not fit and will prevent the clip from pressing the switch.
- Replace the battery cover.
- The default password (12345678) will be in effect when the device resets or on next startup of the device.

Fig. 6



Fig. 7



AUTO SHUTDOWN

The inspection scope will turn **Off** if five minutes pass with no connection from the RYOBI™ Phone Works™ App.

Shutdown occurs when:

- The device is turned **On** but nothing is connecting to the wireless network;
- The device is turned **On** and a phone is connected to the wireless network, but the INSPECTION SCOPE app segment is not open;
- The phone goes to sleep or the RYOBI™ Phone Works™ App is sent to the background.

OPERATION

TAKING A PICTURE

See Figure 8.

Images can be saved and shared via email or social media.

- Aim the scope at the target area.
- Tap the camera **On** icon and tap the large green button.
- The picture will appear on the screen.
- To save, swipe the picture to the left toward the file cabinet.
- To delete, swipe the picture downward.

NOTE: Pictures will be saved into the current project name. To save into another existing project, see *Managing Your Projects*.

- Multiple pictures can be saved into each project.

TAKING A VIDEO

See Figure 8.

- Aim the scope at the target area.
- Select the video camera icon.
- Push the green button to start recording the video.
- Push the green button again to stop recording.
- To save, swipe the video to the left toward the file cabinet.
- To delete, swipe the video downward.

MANAGING YOUR PROJECTS

See Figure 9.

To add, edit, delete or share your images:

Tap the project name in the top right corner. A menu appears showing **Add New**, **Edit**, **Use Existing** or **Cancel**.

Add New

- Tap **Add New** and enter the name of your new project.
- Tap **Done** to return to the screen. Any screen shots or images saved will be stored under this new project name.
- To review images, tap the file cabinet icon. Tap the image to display the saved screenshot.

NOTE: If no images have been saved, you will receive a notice that no readings are available in this project. You must save an image before you can open to review.

Edit

- Delete or add characters in the open project name and type in a new or revised name for your project.

Use Existing

- Scroll through the list of project names and select the one you wish to access.
- Tap **Done** to load the project.

Fig. 8

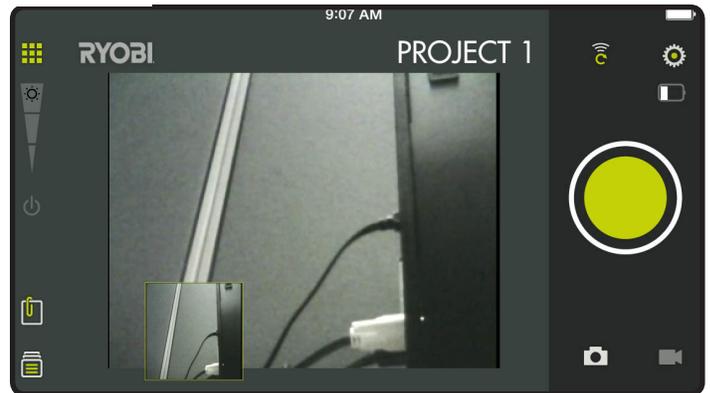


Fig. 9



App images may vary.

OPERATION

CREATING NOTES

Tap the notes icon in the top right corner of the projects screen. A menu appears displaying **Photos**, **Audio Memo**, **Location** and **Notes**.

- Tap plus (+) for **Photos** to take a picture in the selected project or view current photos.
- Tap plus (+) for **Audio Memo** to record a voice memo of up to two minutes in the selected project. Tap the green button to begin recording. Tap again to stop.
- Tap plus (+) for **Location** and select **Use Current Location** to record your current location in the selected project. To edit or manually enter the location, tap plus (+) again to access the keyboard.
- Tap plus (+) for **Notes** to access the notes screen. Tap plus (+) again to access the keyboard.

SHARING NOTES

- Select the share icon .
- Select the share icon on each piece of data you wish to share.
- Select the share method.

PROJECT FOLDER SUMMARY

See Figure 10.

- The file cabinet  may be accessed from the RYOBI™ Phone Works™ home screen or from any app segment.
- Accessing the file cabinet from the home screen will display all projects and icons representing the app segments used for each project.

PROJECT SUMMARY

See Figures 11.

- Accessing the file cabinet from within a project will display the app segments containing photos or data.
- Tap an icon to select or deselect an app segment within a project. When an app segment is selected, stored items will be visible.
- Tap a stored item to preview its details.

Fig. 10

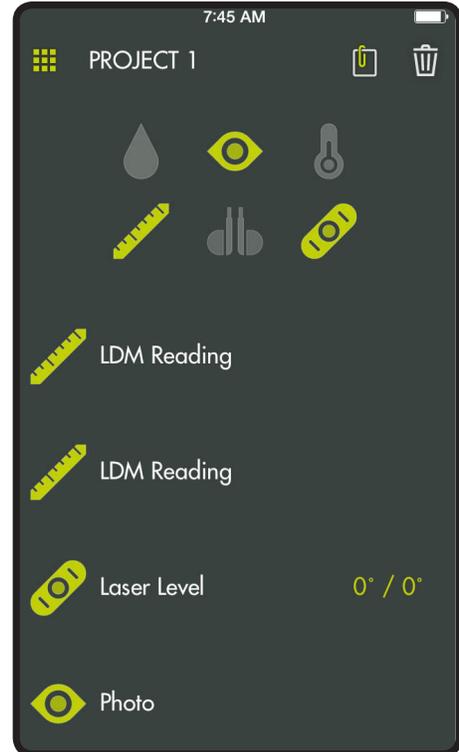


Fig. 11



OPERATION

SHARING PROJECTS

See Figure 12.

- To share **items**, tap the share icon  to the right of **Preview**. A blank email opens with the image attached.
- Tap **Cancel** to save the email as a draft or delete the draft. Sending the email returns you to the **Preview** screen.
- To exit preview, tap the arrow to the left of **Preview**.

DELETING PROJECTS

See Figure 13.

- To delete a project view, tap the trash can icon. Tap the project view(s) you wish to delete. A red trash can appears next to each item you have selected to delete. Tap **DELETE**  to select the item. Tap **DELETE** again to delete the project view.
- To delete an entire project across multiple devices, return to the RYOBI™ Phone Works™ home screen. Select the file cabinet icon and then select the project you wish to delete. Swipe to reveal the **DELETE** option and select **DELETE**.

Fig. 12

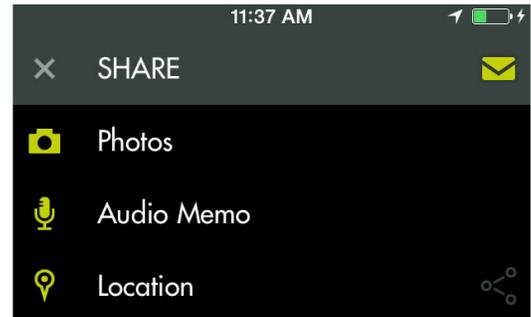
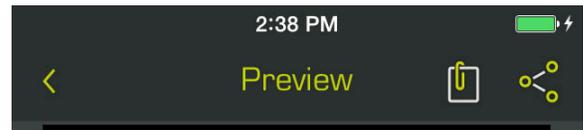
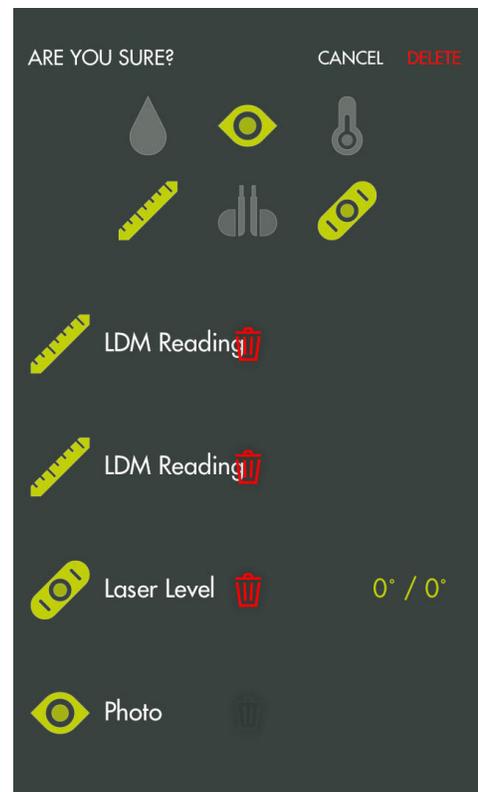


Fig. 13



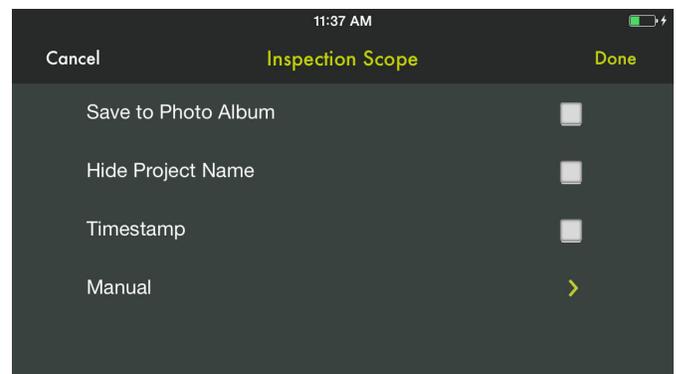
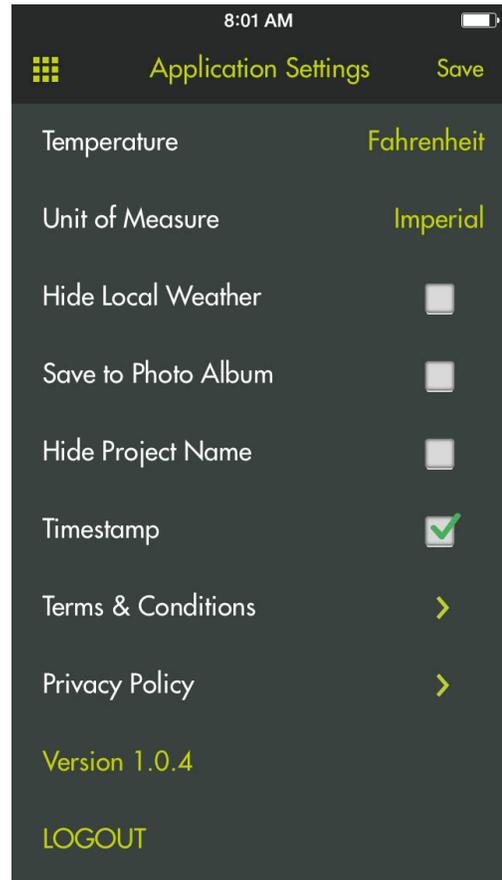
OPERATION

GLOBAL SETTINGS/SETTINGS

See Figure 14.

- Tap the **Settings**  icon on the RYOBI™ Phone Works™ home screen to make changes based on your preferences.
- Settings specific to some app segments can only be changed within the app segment.
- Tap **Save** to apply changes.
- You may also LOGOUT from this screen, view the Terms and Conditions, and view the Privacy Policy.

Fig. 14



App images may vary.

MAINTENANCE

 **WARNING:**

When servicing, use only identical replacement parts. Use of any other parts could create a hazard or cause product damage.

GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

STORAGE

Store in a cool, dry location to prevent condensation or mold from forming inside the product.

Do not store the product at temperatures greater than 122° F (such as on a dashboard or vehicle interior).

CALIFORNIA PROPOSITION 65

 **WARNING:**

This product may contain chemicals, including lead, known to the State of California to cause cancer, birth defects, or other reproductive harm. ***Wash hands after handling.***

BATTERY RECYCLING

Consult the Earth 911 website (www.earth911.com) or your local waste authority for information regarding available recycling and/or disposal options.

 **WARNING:**

Do not attempt to destroy or disassemble batteries or remove any of their components. All batteries must be recycled or disposed of properly. Do not discard large amounts of used batteries together. “Dead” batteries often have residual charge. When grouped together, these batteries can become “live” and pose a risk of possible serious injury.