

Chapter 6 MaxiFix Operations

The MaxiFix application launches the on-line troubleshooter database, which not only provides you virtually all common diagnostic trouble code (DTC) database for most vehicles, but also serves as a forum allowing you to network with other MaxiSys users, and gives you access to a vast database of repair and diagnostic tips along with proven filed fixes.

While the MaxiFix provides the abundant troubleshooter information available, the database keeps growing with daily troubleshooting resources by recording the reported solution cases, and the advisory reports of the MaxiSys users from all over the world.

Information in the MaxiFix database is organized into a series of diagnostic tips that are designed to quickly lead you to the root cause of a particular problem on the test vehicle, which will help you quickly find solutions for various diagnostic problems.

6.1 Navigation

You need to register the device to your online account before launching the MaxiFix platform, see [12.1 Product Registration](#) on page 99 for details.



Figure 6-1 Sample MaxiFix Home Page

The MaxiFix screen layout consists of 3 main areas:

1. **The Header** –the tool bar across the top of the screen which allows you to select vehicles and perform searches.
2. **The Main Screen** –located at the center of the screen displaying content based on the vehicle attributes and keywords specified. The tabs on the main screen vary in accordance with the section selected on the Navigation Menu, allowing you to switch between functions.
3. **The Navigation Menu** –the main menu at the bottom of the screen, which provides you access to different sections of MaxiFix.

The Header

The Header at the top of the screen features:

- A Select Vehicle button to open the vehicle identification window, and vehicle information bar, for example “2014>Hyundai> Accord Coupe > L4-2.4L (K24W1)”.
- A search field to find relevant information by entering keywords, codes, or problems.

Select Vehicle Button

The “Select Vehicle” button on the Header allows you to specify the vehicle which you want to reference on MaxiFix, by selecting each of the vehicle attribute from a sequence of option lists. This feature helps to filter out the searches that allow only the information that applies to the identified vehicle to display.

Note: All attributes must be specified to make a complete vehicle selection for the most efficient search results.

➤ To select a vehicle

Follow the procedure below to select a vehicle:

1. If you haven’t already done so, click the “Select Vehicle” button on the Header.
2. Select the **year** of the vehicle from the list.
3. Select the **make** of the vehicle from the list.
4. Select the **model** of the vehicle from the list.

5. Select the **submodel** of the vehicle from the list.
6. Select the **engine** of the vehicle from the list.

After completing the vehicle selection procedure, the identified vehicle is shown on the Header.

6.1.1 Terminology

MaxiFix Tip

A MaxiFix Tip provides practical information of real fix of a specific vehicle repair issue with detailed descriptions. It is combined with proven fix and vehicle specific data, and filed into an all-in-one information source to provide you with quick and easy repair solutions.

On MaxiFix community you can find Tips or share your own Tip to help other community members solve vehicle issues.

➤ To search for a MaxiFix Tip

1. Select a Vehicle:
 - a) Click the “Select Vehicle” button on the Header at the top of the page.
 - b) Select the **year** of the vehicle from the list.
 - c) Select the **make** of the vehicle from the list.
 - d) Select the **model** of the vehicle from the list.
 - e) Select the **submodel** of the vehicle from the list.
 - f) Select the **engine** of the vehicle from the list.

After completing the vehicle selection procedure, the identified vehicle is shown on the Header.

2. Enter a Search Term.

MaxiFix has an exclusive one-stop lookup that helps you find all of MaxiFix resources by one click. Simply enter a search term into the search bar on the Header to begin the search.

3. Proven Results!

The powerful MaxiFix database gives you proven results! The typical MaxiFix Tips combine actual workshop fixes and data which may include:

- a) OBDII Fault Codes description and reference—helps in diagnostic assessment by making clear the nature of an automotive problem so that beginner and advanced technicians can make effective repairs
- b) Real Fix Tips—provides repair tips from actual shop practices and are presented in an easy to understand Complaint, Cause, Correction format.

If you still can't find the information you want, you can ask the MaxiFix community for help by clicking "Ask" on the Navigation Menu at the bottom of the screen.

Adopted!

The "Adopted!" icon that displays at the top right side of a Tip page indicates that the related Tip has been adopted by at least 1 technician in the community. If a tip has helped you to solve a repair problem, you are encouraged to give an Adopted! count to the tip. Each member is allowed to click the "Adopted!" once for a tip, and each click will add 1 count to the total number of "Adopted!" The "Adopted!" count helps you easily identify which tips are really helpful for repairing vehicle issues. You can also post a comment about how the tip has helped you as reference to other members.

6.2 Operations

The Navigation Menu is at the bottom of the screen. Selecting the items on the Navigation Menu allows you to switch between the main sections on MaxiFix. These main sections include:

- **Home** –shows all questions and allows you to specify questions about one or multiple makes.
- **Search Fix** –allows you to search for information from all available resources on MaxiFix, including: Open Questions, Tips, and Real Fixes, and displays search results.
- **Ask** –allows you to ask a question in the community.
- **My MaxiFix** –shows all your posts including Questions and Fixes in the community, and allows you to view your personal profile, select your vehicle preference, and share your tips.
- **My Messages** – shows a list of message notifications which is relevant

to your activities in the Question section.

- **Support** – opens the FAQ page, or a message box for contacting Customer Service by email.

6.2.1 Home

Home is the first option on the Navigation Menu at the bottom of the screen. Tapping it opens your MaxiFix home page. There is a list of questions posted on the community, and you can scroll down the page to the bottom and view more questions by tapping “View More”. Click on any question and you will be linked to the detailed page in the Ask section.

You can configure your main screen to display questions only related to the vehicle makes you are interested in, by clicking the “Filter” button on the main page of Home, and select the desired vehicle makes. This filter can be canceled anytime by clicking the “Remove All Filters” button, and the default setting will be restored to display questions about all vehicle makes.

6.2.2 Search Fix Features

Search Fix, the second option on the Navigation Menu at the bottom of the screen, presents search results for the specified vehicle. Search results are listed in various categories:

- **All** – includes all search results, including related Questions, Tips, and Real Fixes to your search.
- **Questions** – presents a list of open Question discussed in the community that may be pertinent to your search.
- **Tips** – presents a list of Tips that directly correlate to your search criteria. Select a Tip from the list to open and review the complete Tip.
- **Real Fixes** – presents a list of Tips that have been collected from actual shop repair orders and are presented in an easy-to-understand Complaint, Cause, and Correction format.

6.2.3 Ask

Ask, the third option on the Navigation Menu at the bottom of the screen, allows you to ask a question about a particular vehicle repair issue in the community.

➤ **To ask a MaxiFix Question**

1. If not already done, click **Select Vehicle** on the Header to specify the vehicle you are asking about.
2. Click **Ask** on the Navigation Menu at the bottom of the screen to open the Ask page.
3. On the **Ask** page find **Ask for Help**, fill in the following sections to ask a question.

The Ask page has 4 sections:

- **Subject** – this is where you enter a brief subject for the question.
- **My Question** – ask a clear and concise question that you want to ask the community. Be sure to be descriptive and concise when asking your question.
- **Problem Description** –describe how the vehicle is behaving.
- **Repair History** – include any previous diagnostic tests that you performed, including the results of the tests. Also list any parts that were replaced during previous diagnostic work.

Tap the “Cancel” button to cancel your question and return to the Ask page.

Tap the “Submit” button to post your question to the community.

Tap the “Attach File” button to include images or reference files with your question.

You are requested to select one Adopted Answer from all of the responses and then close the question. For details, please refer to My Messages section.

6.2.4 My MaxiFix

My MaxiFix, the fourth option on the Navigation Menu at the bottom of the screen, opens your personal MaxiFix page. To access the features on My MaxiFix page you can select from the tabs:

- **My Questions** – opens a list with links to the opened questions that you have posted to the community
- **My Cases** – opens a list with links to the closed questions and tips that you have contributed to the community.

- **Marked Posts** – opens a list with links to Tips and discussions that you are actively participating in.
- **My Profile** –allows you to view your Autel account information including: your Autel ID, personal information, MaxiFix score, phone number and register time, and edit your portrait.
- **Vehicle Preference** –used to set up a list of preferred vehicles. The preferred list allows you to limit the choices that displayed on the “Select Vehicle” list to specific years, and makes. Click “Set Year” or “Set Make” to set your preferred models. The preferred makes will also be displayed in the “Filter” options on the Home page.
- **Share a Tip** – allows you to share your personal repair experience with the community.

Click **My MaxiFix** on the Navigation Menu at the bottom of the screen, to display all questions and tips that you have contributed to the community.

Create a Tip

A “Tip” is a concise and complete description of the fix for a particular vehicle repair issue.

➤ To create a new MaxiFix Tip

1. Select **My MaxiFix** from the Navigation Menu.
2. Select **Select Vehicle** from the Header and enter the identifying attributes of the vehicle you are writing the Tip about.
3. On the My MaxiFix page find **Share a Tip**; click this link to open the **My Tips** page.
4. Enter the Tip subject in the **Subject** field.
5. Compose your Tip in the **Description** field. Include as much information as possible, while keeping the information concise and to the point. A Tip should provide accurate information that is reader-friendly.

Use the **Cancel** button at the right-side bottom of the page to cancel your tip and return to the My MaxiFix page. Or,

Use the **Submit** button at the right-side bottom of the page to contribute your tip to the community.

Use the **Attach File** button at the left-side bottom of the page to include images or other supporting data with your question.

View Profile Information

You can view your personal profile by clicking on your account ID or “My Profile” in My MaxiFix section or edit portrait where applicable, and visit other community members’ profile by clicking their portrait. Information included in your profile determines how you are presented to the community, and what type of information will be sent to you from the community.

6.2.5 My Messages

My Messages, the fifth option on the Navigation Menu at the bottom of the screen, shows a list of message notification which is relevant to your activities in the Question section. A notification icon will appear on the top-right corner of “My Messages” if there is any new or unread message in the Question section. The number on the notification icon indicates the total number of the new and unread messages. The displayed number will be reduced correspondingly after viewing. The message notification will appear under the following two conditions:

1. Your question or answer is replied by other MaxiFix community members.
2. Your answer is marked as the “Adopted!” by the MaxiFix community member who asked the question.

Tap **My Messages**, select and open the message you want to read from the list. If your problem is solved according to the reply, you should select one Adopted Answer and close the question. If your answer is marked as “Adopted!”, the prompt “Adopted! + 4” will be displayed permanently.

Tap **Clear** to delete all message notifications.

Select “Adopted Answers”

Members are requested to select one Adopted Answer from all of the responses on “My Messages” page before closing a question. The community members who provided the Adopted Answer are rewarded with scores for their contribution.

About Adopted Answer:

- Only one answer can be selected as “Adopted Answer”.
- Answers can only be rated by the MaxiFix member who asked the question.

Close a Question

When a repair question that you've posted to the community is resolved, you are encouraged to write down the case as a way to share a good solution. This will help the other MaxiFix members to find useful information for practical fix.

To close a question, you need to select the question's response message from the message list on "My Messages" page first, then tap "Adopted Answer" and select "Close Question". Tap the "Cancel" button to cancel your submission and return to My Messages page. It is strongly recommended to share your repair solutions before closing a question. Your question will be converted to a MaxiFix Community Tip after closing.

Score Rewarding System

1. A score of 3 is awarded when you close a question.
2. A score of 2 is awarded if your closed question is marked as "Adopted!" by no less than 20 community members.
3. A score of 4 is awarded if your answer is selected as the "Adopted Answer".
4. A score of 1 is awarded if your answer is selected as the "Adopted Answer" for a closed question which is marked as "Adopted!" by no less than 20 community members.
5. A score of 1 is awarded to each of the first three respondents.

6.2.6 Support

Support, the last option on the Navigation Menu at the bottom of the screen, opens a page that provides 2 ways to gain support from MaxiFix:

1. A message form to contact the administrator of MaxiFix.
2. A Frequently Asked Questions (FAQ) link that answers the most frequent questions we hear from MaxiFix community members.

If you wish to contact the administrator of this site please use the contact form. Select "Support" from the Navigation Menu to open the comment window. To allow the administrator to respond to your question or issue, the following information should be provided:

- Your name
- A contact email address
- A contact phone number

Chapter 7 Shop Manager Operations

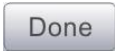
The Shop Manager application helps you to manage the workshop information, customer information records, and keep test vehicle history records, which can be a great assist in dealing with daily workshop business and improves customer service. There are three main functions available:

- **Vehicle History**
- **Workshop Information**
- **Customer Manager**

The operations of these functions of the Shop Manager application are mainly manipulated by the toolbar buttons, which are listed and described in the table below:

Table 7-1 *Top Toolbar Buttons in Shop Manager*

Button	Name	Description
	Back	Returns to the previous screen.
	Diagnostics	Touching this button directs you to the vehicle's Diagnostics screen to activate a direct test session.
	Enter Edit	Touching this button shows the editing toolbar to print or delete the selected file.
	Delete	Touching this button deletes the selected vehicle record item from the list.
	Search	Quickly locates the vehicle record by entering the vehicle name or test path.
	Cancel	Touching this button to cancel edit or file search.
	Edit	Touching this button allows you to edit information for the displayed file.
	Add Account	Touching this button to create a new customer account file.

Button	Name	Description
	History Notes	Touching this button opens a note form, which allows you to create audio record, attach picture or video, or edit text notes, etc.
	Vehicle History	Touching this button opens the Vehicle History screen which displays the correlated test vehicle records.
	Done	Complete editing and save the file.

7.1 Vehicle History

This function stores records of test vehicle history, including vehicle information and the retrieved DTCs from previous diagnostic sessions, and displays all information in an easy-to-check table list, on which you can view summarized details and manually input other information about the test vehicle and diagnostic loggings, etc. The Vehicle History also provides direct access to the previously tested vehicle and allows you to restart a diagnostic session without the need to do vehicle identification again.

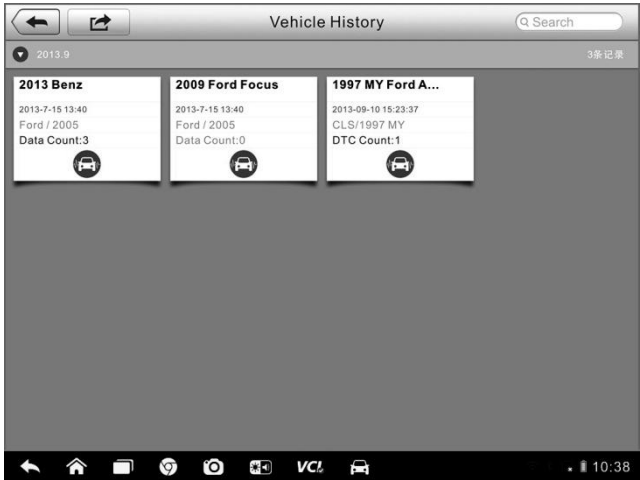


Figure 7-1 Sample Vehicle History Screen

1. **Top Toolbar Buttons** – navigates and makes various controls of the application.
2. **Main Section** – displays all the vehicle history records information.

- **To activate a test session for the recorded vehicle**
1. Tap the **Shop Manager** application on the MaxiSys Job Menu.
 2. Select **Vehicle History**
 3. Tap the **Diagnostics** button at the bottom of the thumbnail of a vehicle record item. Or,
 4. Select a vehicle record item by tapping the thumbnail.
 5. A Historical Test record sheet displays, check the recorded information of the recorded test vehicle, and tap the Diagnostics button on the upper right corner.
 6. The vehicle's Diagnostics screen displays, now a new diagnostic session is activated, see [4.6 Diagnosis](#) on page 32 for detailed instructions on vehicle diagnostic operations.

7.1.1 Historical Test Record

The Historical Test record sheet of the tested vehicle is a detailed data form, which includes all general information of the vehicle such as vehicle year, make and model, etc., and the diagnostic trouble codes retrieved from the previous test sessions, as well as other service details which can be added manually by the technician himself.

The screenshot shows a mobile application interface titled "Historical Test". At the top, there are navigation icons (back, home, search, print, delete) and a "Vehicle Title" field containing "Ford Mustang". Below this, the "Vehicle Info" section contains fields for Year (2008), Make (Ford), Model (Mustang), SubModel, and Engine. To the right of these fields are fields for VIN, License, Odometer/Mileage, and Color. A "Service Record" section includes a "Technician" field and a "Technician Notes" text area. Below that is the "Customer Info" section with "First Name" and "Last Name" (John) fields, and an "Add to Customer" button. The "DTC" (Diagnostic Trouble Codes) section has a table with columns "Codes", "Status", "Descriptions", and "System", currently showing "No data". At the bottom, there is an "Activate" button with a plus icon and a large empty text area for notes.

Figure 7-2 Sample Historical Test Record Sheet

➤ **To edit the Historical Test record sheet**

1. Tap the **Shop Manager** application on the MaxiSys Job Menu.
2. Select **Vehicle History**.
3. Select the specific vehicle history record thumbnail from the main section. The Historical Test record sheet displays.
4. Tap the **Edit** button to start editing.
5. Tap on each item to input the corresponding information or add attaching files or images.

NOTE: The vehicle VIN number, or license and the customer information account are correlated by default. Adding one of the information will automatically associate the other item in the record sheet, provided that the later one exists.

6. Tap **Add to Customer** to correlate the Historical Test record sheet to an existing customer account, or add a new associating account to be correlated with the test vehicle record. See [7.3 Customer Manager](#) on page 80 for more information.
7. Tap **Done** to save the updated record sheet, or tap **Cancel** to exit without saving.

7.2 Workshop Information

The Workshop Information form allows you to edit, input and save the detailed workshop information, such as shop name, address, phone number and other remarks, which, when printing vehicle diagnostic reports and other associated test file, will appear as the header of the printed documents.

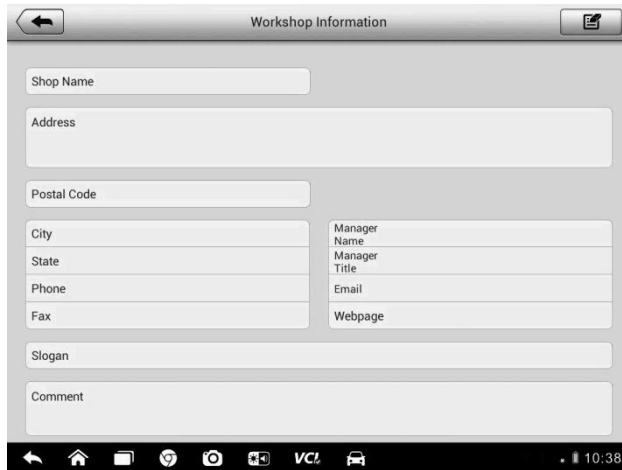
The screenshot shows a mobile application window titled "Workshop Information". At the top left is a back arrow icon, and at the top right is a share icon. The form contains several input fields: "Shop Name", "Address", "Postal Code", "City", "State", "Phone", "Fax", "Slogan", and "Comment". On the right side, there are five stacked input fields labeled "Manager Name", "Manager Title", "Email", and "Webpage". At the bottom of the screen is a black navigation bar with various icons including a back arrow, home, app drawer, a circular icon with a checkmark, a camera, a document with a plus sign, a "VCL" logo, a car icon, and a battery/status indicator showing 10:38.

Figure 7-3 Sample Workshop Information Sheet

- **To edit the Workshop Information sheet**
1. Tap the **Shop Manager** application on the MaxiSys Job Menu.
 2. Select **Workshop Information**.
 3. Tap the **Edit** button on the top toolbar.
 4. Tap on each field to input the appropriate information.
 5. Tap **Done** to save the updated workshop information sheet, or tap **Cancel** to exit without saving.

7.3 Customer Manager

The Customer Manager function allows you to create and edit customer accounts. It helps you to save and organize all customer information accounts that are correlated with the associated test vehicle history records, which is a great support for the arrangement of daily workshop business.

- **To create a customer account**
1. Tap the **Shop Manager** application on the MaxiSys Job Menu.
 2. Select **Customer Manager**.
 3. Tap the **Add Account** button. An empty information form displays, tap each field to input the appropriate information.

NOTE: The items that must be filled are indicated as required fields.

4. Tap the  photo frame beside the Name chart to add a photo. A sub menu displays, select **Take Photo** to take a new photo for the account, or select **Choose Photo** to choose from the existing files.
5. Some customers may have more than one vehicle for service; you can always add new vehicle information to the account to be correlated. Tap **Add New Vehicle Information**, and then fill in the vehicle information. Tap the  button to cancel adding.
6. Tap **Done** to save the account, or tap **Cancel** to exit without saving.

➤ **To edit a customer account**

1. Tap the **Shop Manager** application on the MaxiSys Job Menu.
2. Select **Customer Manager**.
3. Select a customer account by tapping the corresponding name card. A Customer Information sheet displays.
4. Tap the **Edit** button on the top toolbar to start editing.
5. Tap on the input field where needs to be altered or supplemented, and enter updated information.
6. Tap **Done** to save the updated information, or tap **Cancel** to exit without saving.

➤ **To delete a customer account**

1. Tap the **Shop Manager** application on the MaxiSys Job Menu.
2. Select **Customer Manager**.
3. Select a customer account by tapping the corresponding name card. A Customer Information sheet displays.
4. Tap the **Edit** button on the top toolbar to start editing.
5. Tap the **Delete Customer Information** button. A confirmation message displays.
6. Tap **OK** to confirm the command, and the account is deleted. Tap **Cancel** to cancel the request.

7.3.1 History Notes

The History Notes function allows you to add audio and video records, text notes and photos, to keep multi-media work logs for the associated customer account, which can be very helpful when dealing with repeat customers. Keeping notes for each vehicle serviced for each customer will keep you always on track and well organized in business.

➤ **To access History Notes**

1. Tap the **Shop Manager** application on the MaxiSys Job Menu.
2. Select **Customer Manager** or **Vehicle History**.
3. Select a customer account by tapping the corresponding name card. A Customer Information sheet displays (if **Customer Manager** is selected). Or, select a vehicle history record item to open the Historical Test record sheet (if **Vehicle History** is selected).
4. Tap the **History Notes** button on the top bar. Now the History Notes screen displays.

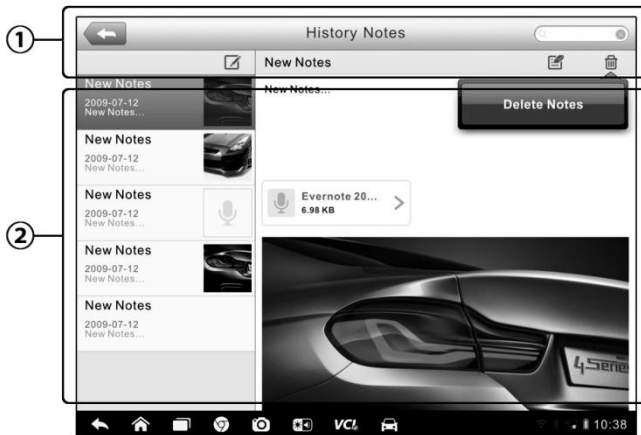
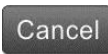


Figure 7-4 Sample History Notes Screen

1. **Functional Buttons** – navigates and make various controls of the function
2. **Main Section** – displays the note list on the left column and the detail information of the selected note on the right column

Table 7-2 Function Buttons in History Notes

Button	Name	Description
	Back	Returns to the previous screen.
	Delete	Touching this button deletes the selected note.
	Search	Quickly locates the required note by entering the note title.
	Cancel	Touching this button to cancel edit or file search.
	Edit	Touching this button opens an edit window allowing you to edit notes and attach files.
	Add Notes	Touching this button to add new note in History Notes.
	Audio Record	Performs audio recording and creates audio files.
	Add Photos	Opens the image file for selection, and adds the selected photos to History Notes.
	Take a Video	Records a video and adds the file to History Notes.
	Take a Photo	Takes photos and adds the files to History Notes.
	Save	Saves notes.

➤ **To add a note in History Notes**

1. Access History Notes.
2. Tap the **Add Notes** button. An edit window displays.
3. Tap on the Title bar to input a note title.
4. Tap on the blank space below to edit a text note or remark.
5. Select a function button on the top to add files in any form you choose.
6. Tap **Save** to save the note; tap **Discard** or **Cancel** to exit without saving.

Chapter 8 Data Manager Operations

The Data Manager application is used to store, print, and review the saved files. Most operations are controlled through the toolbar.

Selecting the Data Manager application opens the file system menu. Different file types are sorted separately under different options, there are six types of information files to be viewed or played back.



Figure 8-1 *Sample Data Manager Main Screen*

8.1 Operations

Data Manager Operations are based on toolbar controls. Details are explained in the following sections.

8.1.1 Image Files

The Image section is a JPG database containing all captured screenshot images.

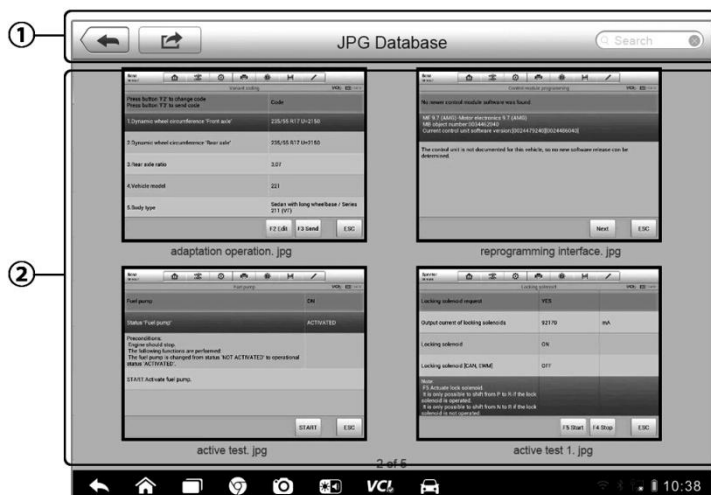


Figure 8-2 Sample Image Database Screen

1. **Toolbar Buttons** – used to edit, print and delete the image files. See [Table 8-1 Toolbar Buttons in JPG Database](#) on page 85 for detailed information.
2. **Main Section** – displays the stored images.

Table 8-1 Toolbar Buttons in JPG Database

Button	Name	Description
	Back	Returns to the previous screen.
	Enter Edit	Tapping this button shows the editing toolbar to print, delete or view image information.
	Cancel	Tapping this button close the editing toolbar or cancels file search.
	Search	Quickly locates the image file by entering the vehicle name, test path, file name or file info.
	Info	Tapping this button opens a window displaying the details of the image.
	Print	Tapping this button prints the selected image.
	Delete	Tapping this button deletes the selected image.

➤ **To edit image information**

1. Select **Data Manager** application from the MaxiSys Job Menu.
2. Select **Image** to access the JPG database.
3. Select an image to display it in full screen.
4. Tapping the screen once displays the editing toolbar.
5. Tap the **Info** button to open a window displaying the image information.
6. Tap the **Edit** button on the top right corner of the window. The editing screen displays.
7. Edit the image information by entering the new file name, and file information.
8. Tap **Done** to save the information and exit, or tap **Cancel** to exit without saving.

➤ **To delete selected images**

1. Select **Data Manager** application from the MaxiSys Job Menu.
2. Select **Image** to access the JPG database.
3. Tap the **Enter Edit** button to display the editing toolbar.
4. Select the images that need to be deleted by tapping the thumbnail images, the selected thumbnail displays a tick icon at the bottom right corner.
5. Tap the **Delete** button, and then **Delete Selected**, then the selected images will be deleted.

8.1.2 PDF Files

The PDF section stores and displays all PDF files of saved data. After entering the PDF database, select a PDF file to view the stored information.

This section uses the standard Adobe Reader application for file viewing and editing, please refer to the associated Adobe Reader manual for more detailed instructions.

8.1.3 Review Data

The Review Data section allows you to playback the recorded data frames of live data streams.

On the Review Data main screen, select a record file to playback.

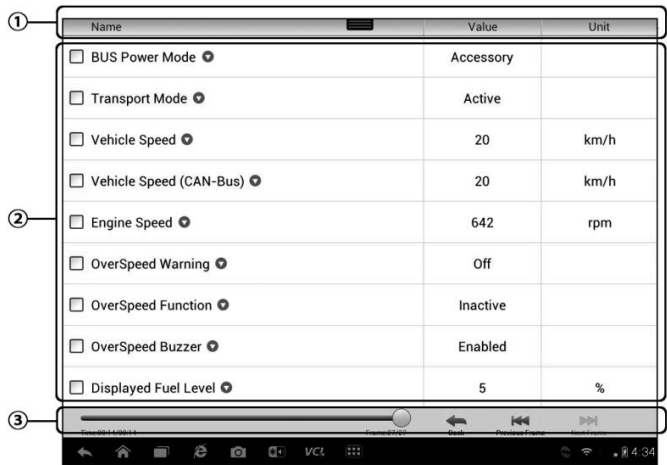


Figure 8-3 Sample Data Playback Screen

1. **Drop-down Toolbar** – tap the button at the top center of the screen to open the Drop-down Toolbar
2. **Main Section** – displays the recorded data frames
3. **Navigation Toolbar** – allows you to manipulate data playback

Use the Navigation Toolbar buttons to playback the record data from frame to frame.

Tap **Back** to exit data playback.

8.1.4 Apps Manager

This section allows you to manage the firmware applications installed on the MaxiSys Diagnostics System. Selecting this section opens a managing screen, on which you can check all the available vehicle diagnostic applications.

Select the vehicle firmware you want to delete by tapping on the car brand icon, the selected item will display a blue tick at the upper right corner. Tap the **Delete** button on the top bar to delete the firmware from the system database.

8.1.5 Data Logging

The Data Logging section allows you to launch Support platform directly to view all records of all sent or unsent (saved) data loggings on the diagnostic system. For more details, please refer to [12.5 Data Logging](#) 12.5 on Page 104.

Chapter 9 Settings Operations

Selecting Settings application opens a setup interface, on which you can adjust default setting and view information about the MaxiSys system. There are seven options available for the MaxiSys system settings:

- **Unit**
- **Language**
- **Printing Setting**
- **Notification Center**
- **About**
- **System Settings**

9.1 Operations

This section describes the operation procedures for the settings.

9.1.1 Unit

This option allows you to adjust the measurement unit for the diagnostic system.

➤ **To adjust the unit setting**

1. Tap the **Settings** application on the MaxiSys Job Menu.
2. Tap the **Unit** option on the left column.
3. Select the required measurement unit, Metric or English. A tick icon will display to the right of the selected unit.
4. Tap the **Home** button on the top left corner to return to the MaxiSys Job Menu. Or select another setting option for the system setup.

9.1.2 Language

This option allows you to adjust the display language for the MaxiSys system.

➤ **To adjust the language setting**

1. Tap the **Settings** application on the MaxiSys Job Menu.
2. Tap the **Language** option on the left column.
3. Select the required language. A tick icon will display to the right of the selected language.
4. Tap the **Home** button on the top left corner to return to the MaxiSys Job Menu. Or select another setting option for the system setup.

9.1.3 Printing Setting

This option allows you to print any data or information anywhere and anytime via Wi-Fi connection. For more information about printing, see 3.3.1 *Printing Operation* on page 17.

➤ **To setup the printer connection**

1. Tap the **Settings** application on the MaxiSys Job Menu.
2. Tap the **Printing Setting** option on the left column.
3. Tap the **Print via Network** item to activate the printing function, which enables the device to send files to the printer through the PC via Wi-Fi connection.
4. Tap the **Home** button on the top left corner to return to the MaxiSys Job Menu. Or select another setting option for the system setup.

9.1.4 Notification Center

This option allows you to turn the Notification Center function on or off. The Notification Center function configures the MaxiSys tablet to receive regular on-line messages from the server for system update notifications or other service information via the Internet. It is highly recommended to keep this function on all the time, so you won't miss out any new update for MaxiSys or event from Autel. Internet access is required for receiving on-line messages.

➤ **To enable the Notification Center function**

1. Tap the **Settings** application on the MaxiSys Job Menu.

2. Tap the **Notification Center** option on the left column.
3. Tap the **ON/OFF** button to enable or disable the Notifications function. If the function is enabled the button turns blue, or if disabled the button turns gray.
4. Tap the **Home** button on the top left corner to return to the MaxiSys Job Menu. Or select another setting option for the system setup.

When the Notification Center function is turned on, and new messages are received by the MaxiSys device, a notification message displays on the MaxiSys Job Menu. Press on the message bar and drag it down, and the received messages are shown in the list, slide the list up or down to view all if the message list covers more than one screen.

Tapping a specific message launches the corresponding application. For example, if you tap on an Update notification message, the Update application will be launched.

9.1.5 About

The About option provides information of the MaxiSys diagnostic device regarding the product name, version, hardware, and serial number, etc.

➤ **To check the MaxiSys product information in About**

1. Tap the **Settings** application on the MaxiSys Job Menu.
2. Tap the **About** option on the left column. The product information screen displays on the right.
3. Tap the **Home** button on the top left corner to return to the MaxiSys Job Menu, or select another setting option for the system setup, after viewing.

9.1.6 System Settings

This option provides you a direct access to the Android background system setting interface, on which you can adjust various system settings for the Android system platform, regarding wireless and networks settings, various device settings such as sound and display, as well as system security settings, and check the associated information about the Android system, etc.

➤ **To enable the App Switcher function**

1. Tap the **Settings** application on the MaxiSys Job Menu.
2. Tap the **System settings** option on the left column.

3. Tap the **App Switcher** option on the left column.
4. Mark the checkbox beside “Always show the App Switcher” on the right side of the screen, then the App Switcher icon shows.

Short pressing the App Switcher icon opens a control panel:

- Tapping a specific app shortcut button enables you to switch directly to the selected application screen.
- Long pressing a specific app shortcut button displays the app menu, on which you can select and change the app shortcut.
- Pressing and dragging the App Switcher icon around allows you to change the icon position alongside the edge of the screen.

You may refer to Android documentation for additional information about Android system settings.

Chapter 10 Update Operations

The Update application allows you to download the latest released software. The updates can improve the MaxiSys applications' capabilities, typically by adding new tests, new models, or enhanced applications to the database.

The Display Tablet automatically searches for available updates for all of the MaxiSys software when it is connected to the internet. Any updates that are found can be downloaded and installed on the device. This section describes installing an update to the MaxiSys System. A notification message displays if an update is available when the Notifications Center function is enabled in the Settings application (See [9.1.4 Notification Center](#) page 90 for details).

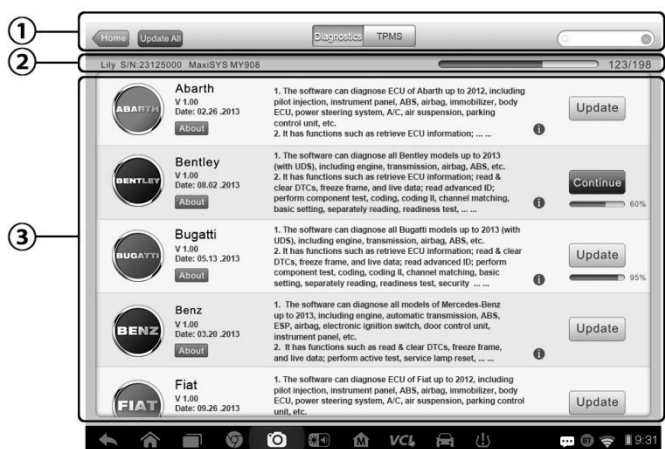


Figure 10-1 Sample Update Screen – for MaxiSys MS906TS

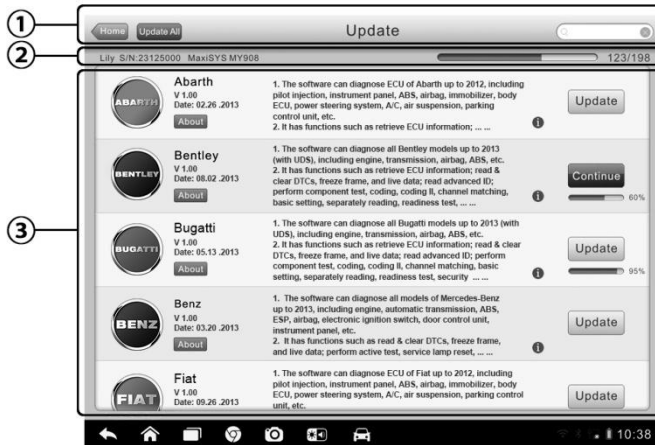


Figure 10-2 Sample Update Screen – for MaxiSys MS906BT

1. Navigation and Controls

- Home Button – returns to the MaxiSys Job Menu
- Update All – updates all available updates
- Diagnostics Tab – displays all available vehicle diagnostic software
- TPMS Tab - displays all available TPMS service software for vehicles (for MS906TS only)
- Search Bar – search specific update item by inputting the file name, for example: a vehicle make

2. Status Bar

- Left Side – displays the MaxiSys device model information and serial number
- Right Side – displays an update progress bar indicating the completion status

3. Main Section

- Left Column – displays vehicle logos and update software version information; tap the **About** button displays a function list in PDF showing more details about the software
- Middle Column – displays a brief introduction about the new changes to the software operation or capabilities. Tap ⓘ button to open an information screen to view more details, and tap the dim area around to close the window.

- Right Column – according to the operation status of each software item, the button displays differently.
 - a) Tap **Update** to update the selected item.
 - b) Tap **Pause** to suspend the updating procedure.
 - c) Tap **Continue** to go on updating the suspended update.

➤ **To update the diagnostic software and TPMS service software**

1. Make sure the Display Tablet is connected to a power source with stable access to the internet.
2. Tap the **Update** application button from the MaxiSys Job Menu; or tap the update notification message when received one; or tap the Update icon on Vehicle Menu in Diagnostics application. The Update application screen displays.
3. Check all available updates:
 - If you decide to update all the items of diagnostic software, select **Diagnostics** Tab and then tap the **Update All** button; if you want to update all items of TPMS service software, select **TPMS** Tab and then tap the **Update All** button.
 - If you only want to update one or some of the item(s), tap the **Update** button on the right column of the specific item(s).
4. Tap the **Pause** button to suspend the updating process. When you tap **Continue** to renew the update, the updating process will resume from the break point.
5. When the updating process is completed, the firmware will be installed automatically. The previous version will be replaced.

Chapter 11 VCI Manager Operations

This application allows you to pair up the Display Tablet with the VCI device, check the communication status, and update the VCI software and TPMS service firmware.

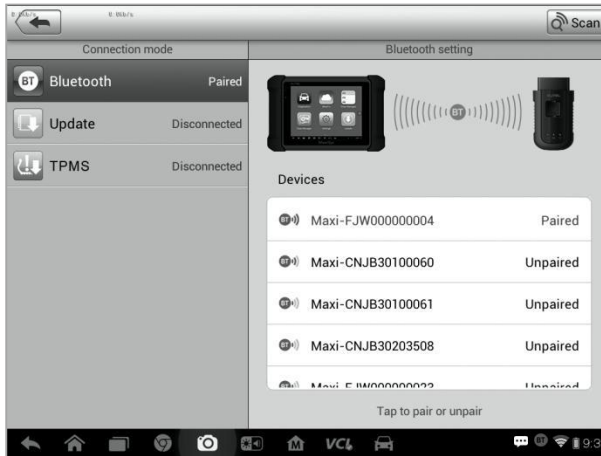


Figure 11-1 Sample VCI Manager Screen

- Connection Mode** – there are three connection modes available for selection. The connection state is displayed alongside.
 - BT Paring – when paired to a wireless device, the connection state displays as Paired; otherwise it displays as Unpaired.
 - Update (for VCI software only) – Update VCI software via internet through the MaxiSys tablet networking using USB connection.
 - TPMS Module Update – Update TPMS firmware of the Display Tablet via the internet through the tablet networking (for MS906TS)
- BT Setting**

The BT Setting screen displays the type and a partial serial number for all of the devices available for pairing. Tap a required device to start pairing. The BT status icon displayed to the left of the device name indicates the received signal strength.

11.1 BT Pairing

The VCI device needs to be connected to a vehicle, so that it is powered up

during the synchronization procedure. Make sure the Display Tablet has sufficient battery level or is connected to an AC/DC power supply.

➤ **To pair the VCI device with the Display Tablet**

1. Power on the Display Tablet.
2. Insert the 16-pin vehicle data connector of the MaxiVCI V100 to the vehicle data link connector (DLC).
3. Tap the **VCI Manager** application on the MaxiSys Job Menu of the Display Tablet.
4. Select **BT** from the connection mode list.
5. Tap the **Scan** button at the top right corner. Now the device starts searching for available pairing units.
6. The device name may display as Maxi suffixed with a serial number. Select the required device for pairing.
7. When pairing is successfully done, the connection status displayed to the right of the device name is shown as Paired.
8. Wait a few seconds, and the VCI button on the system Navigation bar at the bottom of the screen shall display a green tick icon, indicating the Display Tablet is connected to the VCI device.
9. Tap the paired device again to unpair it.
10. Tap the **Home** button on the top left to return to the MaxiSys Job Menu.

NOTE: A VCI device can be paired to only one Display Tablet each time, and once it's been paired, the device will not be discoverable for any other unit.

11.2 Update

Before update the VCI software, please make sure the Display Tablet network connection is stable.

➤ **To update the VCI device software**

1. Power on the Display Tablet.
2. Connect the VCI device to Display Tablet via USB.
3. Tap the **VCI Manager** application on the MaxiSys Job Menu of the Display Tablet.
4. Select **Update** from the connection mode list.
5. The current version and the latest version of the VCI software will be displayed after a few seconds, click **Update Now** to update the VCI software if available.

11.3 TPMS Module Update

Before update the TPMS module in the Display Tablet, please make sure the Display Tablet network connection is stable.

NOTE: This option is available for MaxiSys MS906TS only.

➤ **To update the TPMS Module**

1. Power on the Display Tablet.
2. Tap the **VCI Manager** application on the MaxiSys Job Menu of the Display Tablet.
3. Select **TPMS** from the connection mode list.
4. The current version and the latest version of the TPMS firmware will be displayed after a few seconds, click **Update Now** to update the TPMS firmware if available.

Chapter 12 Support Operations

This application launches the Support platform which synchronizes Autel's on-line service base station with the Display Tablet. In order to synchronize the device to your on-line account, you need to register the product through the Internet when you use it for the first time. The Support application is connected to Autel's service channel and on-line communities which provides the quickest way for problem solutions, allowing you to submit complaints or sent help requests to obtain direct services and supports.

12.1 Product Registration

In order to get access to the Support platform and obtain update and other services from Autel, you are required to register the MaxiSys Diagnostic Device the first time you use it.

➤ **To register the diagnostic device**

1. Visit the website: <http://pro.autel.com>.
2. On the Sign In page, input your account ID and other information to log in, if you already have an account.
3. If you are a new member to Autel and do not have an account yet, click the **Create Autel ID** button on the left side.
4. Enter the required information in the input fields, read through Autel's Terms and Conditions and tick on **Agree**, and then click **Create Autel ID** at the bottom to continue.
5. The online system will automatically send a confirmation email to the registered email address. Validate your account by clicking the link provided through the mail. A product registration screen opens.
6. Find out the device's serial number and password from the About section of the Settings application on the Display Tablet.
7. Select the product model of your device, enter the product serial number and password on the Product Registration screen, and click **Submit** to complete the registration procedure.

12.2 Support Screen Layout

The Support application interface is navigated by 4 simple buttons on the top navigation bar, operation of each is described below in turn from left to right:

- **Home Button** – returns to the MaxiSys Job Menu.
- **Back** – returns to the previous screen, each press takes you back one step.
- **Forward** – each press moves forward one screen until you’ve reached the last screen visited.
- **Refresh** – reload and update the screen.



Figure 12-1 Sample Support Application Screen

The main section of the Support screen is divided into two sections. The narrow column on the left is the main menu; selecting one subject from the main menu displays the corresponding functional interface on the right.

12.3 My Account

The My Account screen displays the comprehensive information of the user and the product, which is synchronized with the on-line registered account, including User Info, Device Info, Update Info and Service Info.

Personal Info

The User Info and Device Info are both included under the Personal Info section.

- **User Info** - displays detailed information of your registered on-line Autel account, such as your Autel ID, Name, Address and other contact information, etc.
- **Device Info** – displays the registered product information, including the Serial Number, Registration Date, Expire Date, and Warranty Period.

Update Info

The Update Info section displays a detailed record list of the product's software update history, including the product serial number, software version or name, and the update time.

Service Info

The Service Info section displays a detailed record list of the device's service history information. Every time the device has been sent back to Autel for repair, the device's serial number and the detailed repair information, such as the fault type, changed components, or system reinstallation, etc., will be recorded and updated to the associated online product account, which will be synchronized to the Service Info section.

12.4 User Complaint

The User Complaint screen allows you to establish a new complaint case, as well as to view historical complaint records.

Screen Layout

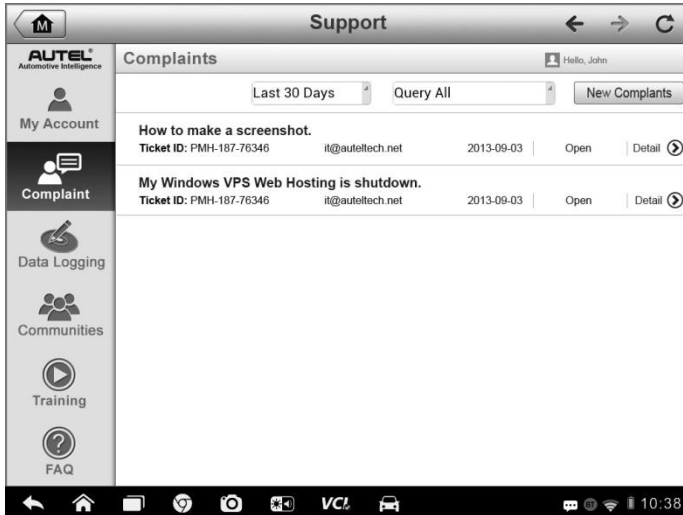


Figure 12-2 Sample Complaint Screen

The User Complaint screen consists of two parts.

1. Option Bar

- **Period Filter** – displays only the complaint records within the defined period on the list
- **Status Filter** – displays the corresponding complaint records according to the selected case status
- **New Complaint Button** – starts a new complaint case.

2. Complaint List

The complaint list normally displays all the complaint records of all time and all status by default. The summary information for each complaint item includes the Subject Name, Ticket ID, User's Account ID, Date, and the Case Status.

There are four kinds of the case status:

- **Open** – indicates the complaint case has been started but not processed yet
- **Suspended** – indicates the complaint case is being processed

- **Waiting Customer Reply** – indicates the complaint has been replied by the service personnel, and requires feedback from the customer
- **Closed** – indicates the complaint case has been processed, solved, and ended
- To view the detailed complaint session, tap the Ⓢ button on the right side of the case item.
- **To establish a new complaint session**
 1. Register the product online.
 2. Tap the **Support** application on the MaxiSys Job Menu. The device information is automatically synchronized with the online account.
 3. Tap **Complaint** on the Main Menu.
 4. Tap the **New Complaint** button at the upper right corner. A selection menu with a category of service channels displays.
 5. Select your target service channel and click **Next** to continue. A standard complaint form displays, on which you are allowed to enter detailed information, such as personal information, vehicle information, and device information, you can also attach image or PDF files with the form.
 6. Enter in each input field the appropriate information, in order to settle the complaint more efficiently, it is recommended to fill out the complaint form as detailed as possible.
 7. Select the required processing time on the last section according to the urgency of the case.
 8. Tap **Submit** to send the completed form to Autel's online service center, or tap **Reset** to refill it. The submitted complaints will be carefully read and handled by the service personnel, and the respond speed may depend on the processing time you've required.
- **To make a reply in a complaint session**
 1. Register the product online.
 2. Tap the **Support** application on the MaxiSys Job Menu. The device information is automatically synchronized with the online account.

3. Tap **Complaint** on the Main Menu.
4. Select an existing complaint case item on the record list by tapping the  button on its right side. The screen displays the complaint session details.
5. Tap the **Post Reply** button on the upper right side after viewing, to make a reply. An edit screen displays.
6. Input the content in the input field, and if necessary, upload an attaching file.
7. Tap **Submit** to post the reply.
8. Tap the **States** selection drop-down menu to reset a case state.
9. Tap the **Update** button to commit the newest update.

12.5 Data Logging

The Data Logging section keeps records of all sent or unsent (saved) data loggings on the diagnostic system. The support personnel receive and process the submitted reports through the Support platform, and send back problem solutions within 48 hours to the corresponding Data Logging session, on which you are also allowed to have a direct conversation with the support personnel.

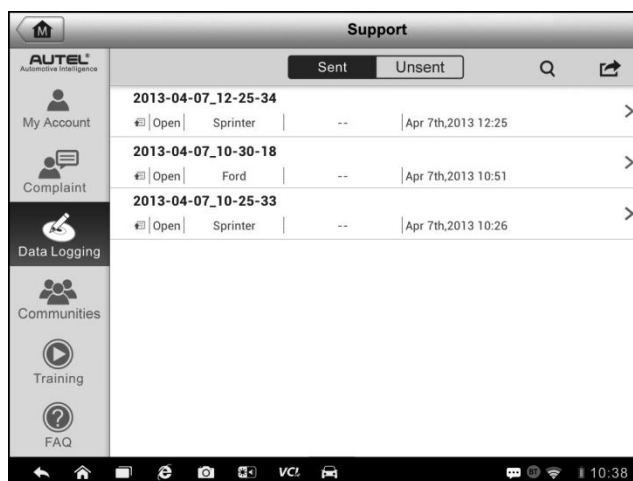


Figure 12-3 Sample Data Logging Screen

➤ **To make a reply in a Data Logging session**

1. Tap on the **Sent** tag to view a list of submitted data loggings.
2. Select a specific item to view the latest update of the processing progress.
3. Tap on the input field at the bottom of the screen, and enter the texts. Or tap the Audio button to record a voice message, or camera button to take a picture.
4. Tap **Send** to deliver your message to the technical center.

12.6 Communities

The Communities section launches and synchronizes with the Technical Forums on Autel's official website www.autel.com, where you are allowed to discuss technical topics or share information with, as well as ask for technical advices or offer technical supports to all other members in Autel's online support communities.

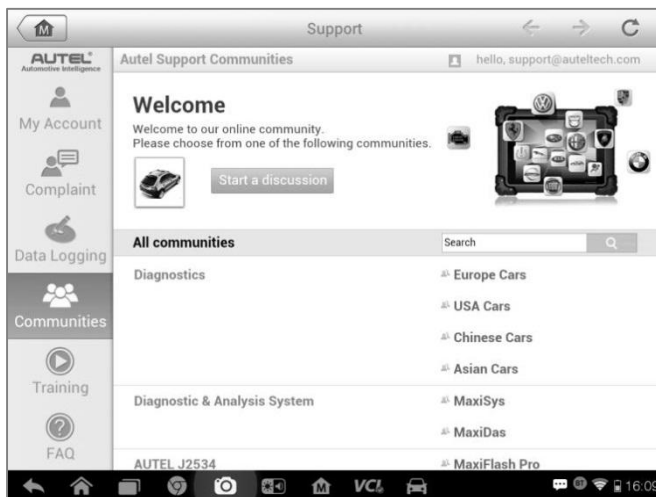


Figure 12-4 Sample Communities Home Screen

➤ **To start a discussion**

1. Tap **Start a discussion** on the Communities Home screen. A list of the major forums is displayed.

2. Select a desired group according to the subject you are about to discuss. For example, if you are going to ask a question about the MaxiSys tablet, tap **MaxiSys** to start a discussion.
3. Enter your topic and the discussion content in the appropriate input field.
4. Select a category or edit tags for the discussed post. This will help other members with similar interest to find your post.
5. Tap **OK** to submit the post.

➤ **To join and reply to a discussion post**

1. Select a forum group that you are interested in, whether by the product or the features, on the Communities Home screen. A list of the latest posts is displayed.
2. Select a specific category on the Categories menu to better pinpoint the topics you are most interested with.
3. Tap the  button on the right side of the topic item to view the discussion. The posts contents are displayed.
4. Browse through all the posts by sliding the screen up and down. Tap **Go to original post** when reaching the end of the discussion to return to the first post.
5. Tap **Reply** to reply a specific post, or tap **Reply to original post** to join and continue the whole discussion.
6. Enter your comment in the input field, and tap **OK** to submit your post.

User Profile

The User Profile section allows you to set personal Avatar, check your member status and other information, as well as to review your personal posts in the communities.

Tap the Avatar image on the Communities screen to open the User Profile.



Figure 12-5 Sample User Profile Screen

- **Profile** – displays the user's personal information and member status. The **Related links** allow you to check the Top Users (ranked according to their points and levels) in the communities, as well as to find out other online users.
- **Avatar** – allows you to select an image to set as your personal Avatar to be displayed in the communities.
- **Stuff** – displays all the discussions you've posted at various forums in a list.

12.7 Training Channels

The Training section provides quick links to Autel's online video accounts. Select a video channel by the language to see all the available online tutorial videos from Autel for various technical supports, such as product usage techniques and vehicle diagnostics practice, etc., may be available for your interests.

12.8 FAQ Database

The FAQ section provides you comprehensive and abundant references for all kinds of questions frequently asked and answered about the use of Autel's online member account, and shopping and payment procedures.

- **Account** – displays questions and answers about the use of Autel's online user account.
- **Shopping & Payment** – displays questions and answers about online product purchase and payment methods or procedures.

Chapter 13 Training Operations

The Training application provides and allows you to play various tutorial videos stored on the device. The stored training materials mainly consists of product usage tutorials and vehicle diagnostic training videos, all produced by top-notch technicians and product experts. The application also allows you to download or watch more associated videos online, by providing quick links to Autel's online video database.

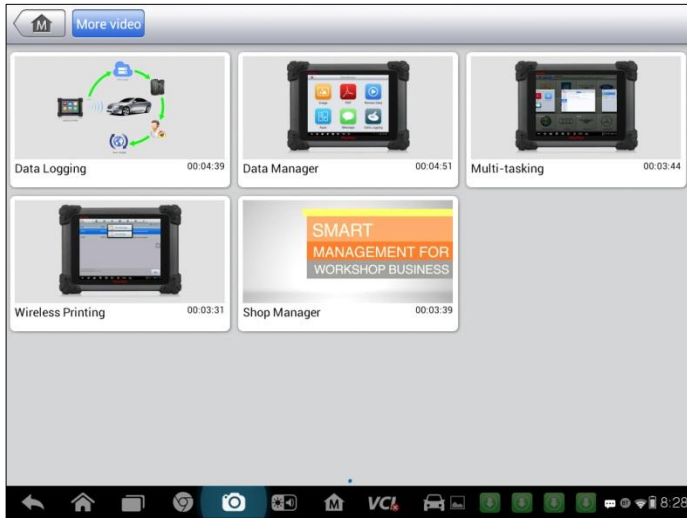


Figure 13-1 *Sample Training Application Screen*

1. **Navigation Buttons** – allows you to navigate the application interface.
 - Home Button – returns to the MaxiSys Job Menu
 - More Video Button– displays all available video files with stable network connection
 2. **Main Section** – displays the available video files for watching
- **To play a video**
1. Tap the **Training** application on the MaxiSys Job Menu. The Training application screen displays.

2. Select a video file from the main section.
3. Select a Player from the popup window if necessary. Now you can watch the video, it is played in full screen mode.

Chapter 14 Remote Desk Operations

The Remote Desk application launches the TeamViewer Quick Support program, which is a simple, fast and secure remote control interface. You can use the application to receive ad-hoc remote support from Autel's support center, colleagues, or friends, by allowing them to control your MaxiSys tablet on their PC via the TeamViewer software.

14.1 Operations

If you think of a TeamViewer connection as a phone call, the TeamViewer ID would be the phone number under which all TeamViewer Clients can be reached separately. Computers and mobile devices that run TeamViewer are identified by a globally unique ID. The first time the Remote Desk application is started, this ID is generated automatically based on the hardware characteristics and will not change later on.

Make sure the Display Tablet is connected to the Internet before launching the Remote Desk application, so that the Display Tablet is accessible to receive remote support from the third party.

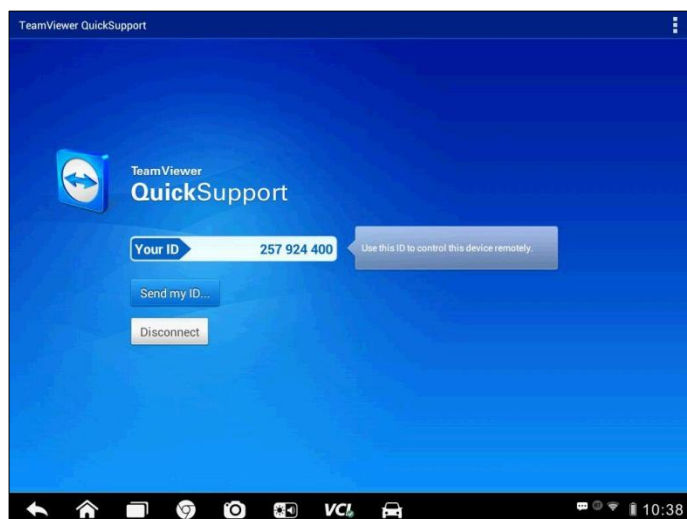


Figure 14-1 Sample Remote Desk Screen

➤ **To receive remote support from a partner**

1. Power on the Display Tablet.
2. Tap the **Remote Desk** application on the MaxiSys Job Menu. The TeamViewer interface displays and the device ID is generated and shown.
3. Your partner must install the Remote Control software to his/her computer by downloading the TeamViewer full version program online (<http://www.teamviewer.com>), and then start the software on his/her computer at the same time, in order to provide support and take control of the Display Tablet remotely.
4. Provide your ID to the partner, and wait for him/her to send you a remote control request.
5. A popup displays to ask for your confirmation to allow remote control on your device.
6. Tap **Allow** to accept, or tap **Deny** to reject.

Refer to the associated TeamViewer documents for additional information.

Chapter 15 Quick Link Operations

The Quick Link application provides you with convenient access to Autel's official website and many other well-known sites in automotive service, which offers you abundant information and resources, such as technical help, knowledge base, forums, training, and expertise consultations, etc.

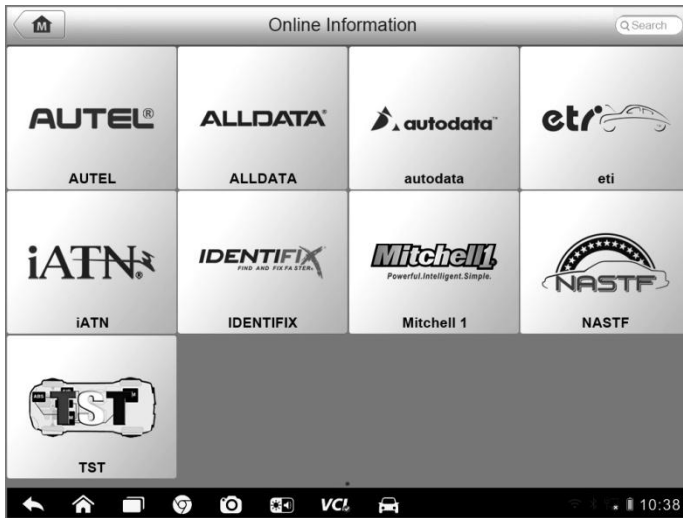


Figure 15-1 Sample Quick Link Screen

➤ To open a quick link

1. Tap the **Quick Link** application on the MaxiSys Job Menu. The Quick Link application screen displays.
2. Select a website thumbnail from the main section. The Chrome browser is launched and the selected website is opened.
3. Now you can start exploring the website!

Chapter 16 Oscilloscope Operations

The Oscilloscope application configures the MaxiSys Diagnostic Device to operate as an automotive oscilloscope when work in combination with the MaxiScope module. This function provides all the features needed for performing electrical and electronic circuit tests as well as monitoring signal activities on any modern vehicles, which shows you what is really going on with a vehicle's electrical system.

16.1 Safety Information

Follow these instructions to reduce the risk of injury from electric shock and prevent equipment damage.

A. Maximum input ranges

Observe all terminal ratings and warnings marked on the product.



DANGER:

- To prevent electric shock, operate within the safe input range for the scope, refer to [16.1 Safety Information](#) on page 114.
- To prevent electric shock, take all necessary safety precautions when working on equipment where voltages above the specified input range may be present. Contact with voltages outside of the specified measuring range presents a risk of electric shock.
- To prevent injury or death, the oscilloscope must not be directly connected to the mains (line power). To measure mains voltages, use a differential isolating probe specifically rated for mains use.



WARNING:

- Operation outside of the safe input range is likely to cause permanent damage to the oscilloscope and other connected equipment.

B. Grounding



DANGER:

- The scope's ground connection through the USB cable is for measurement purposes only. The oscilloscope does not have a protective safety ground.
- Do not connect the ground input (chassis) to any electrical power source. To prevent personal injury or death, use a voltmeter to check that there is no significant AC or DC voltage between the oscilloscope ground and the point to which you intend to connect it.

**WARNING:**

- Applying a voltage to the ground input is likely to cause permanent damage to the oscilloscope, the attached computer, and other equipment.
- To prevent measurement errors caused by poor grounding, always use the high-quality USB cable supplied with the oscilloscope.

C. External connections**DANGER:**

- To prevent injury or death, use only the power cord and adaptor supplied with the product.

D. Environment**DANGER:**

- To prevent injury or death, do not use in wet or damp conditions, or around explosive gas or vapor.

**WARNING:**

- To prevent damage, always use and store your oscilloscope in appropriate environments. For detailed information on temperature and humidity specifications for both the storage and usage of the oscilloscope, see [16.1 Safety Information](#) on page 114.

E. Product Maintenance

The product contains no user-serviceable parts. Repair, servicing and calibration require specialized test equipment and must only be performed by Autel Tech Support or an approved service provider.

**DANGER:**

- To prevent injury or death, do not use the product if it appears to be damaged in any way, and stop use immediately if you are concerned by any abnormal operations.

**WARNING:**

- Do not tamper with or disassemble the oscilloscope, connectors or accessories. Internal damage will affect performance.
- Do not block any of the instrument's air vents as overheating will cause damage to the oscilloscope.
- When cleaning the oscilloscope, use wet soft cloth with mild detergent in water. Do not allow water to enter the oscilloscope casing, as this will cause damage to the electronics inside.

16.2 Glossary

AC/DC Control

Each channel can be set to either AC coupling or DC coupling. With DC coupling, the voltage displayed onscreen is equal to the true voltage of the signal with respect to ground. With AC coupling, any DC component of the signal is filtered out, leaving only the variations in the signal for the AC component.

Aliasing

When the signal frequency gets higher than half the scope's maximum sampling rate and exceeds the limit, a distorted waveform appears. This distortion is called aliasing.

Analog Bandwidth

All oscilloscopes have an upper limit to the range of frequencies at which they can measure accurately. The analog bandwidth of an oscilloscope is defined as the frequency at which a displayed sine wave has half the power of the input sine wave (about 71% of the amplitude).

Block Mode

A sampling mode in which the computer prompts the oscilloscope to collect a block of data into its internal memory before stopping the oscilloscope and transferring the whole block into computer memory. This mode of operation is effective when the input signal being sampled is high frequency.

Buffer Size/Cache Size

This term indicates the size of the oscilloscope's buffer memory. The buffer memory is used by the oscilloscope to temporarily store data. This helps to compensate for the differences in data transfer rate from one device to another.

Sampling Rate

This term is used to define the number of samples per second captured by the oscilloscope. The faster the sampling rate of the scope, the more frequently it measures the signal voltage, and so the more detailed will be the trace that appears on the scope screen.

Streaming Mode

This term indicates a sampling mode in which the oscilloscope samples data and returns it to the computer in an unbroken stream. This mode of operation is effective when the input signal being sampled is at low frequency.

Time Base

The time base controls the time interval across the scope display.

Voltage Range

The voltage range is the range between the maximum and minimum voltages that can be accurately captured by the oscilloscope.

Sinusoidal Waveform

This term describes the waveform characteristics typically found in circuits with large inductance and capacitance, and often referred to as an AC signal. The waveform alternates either side of 0 volts or may rise and fall creating a regular sinusoidal shape:

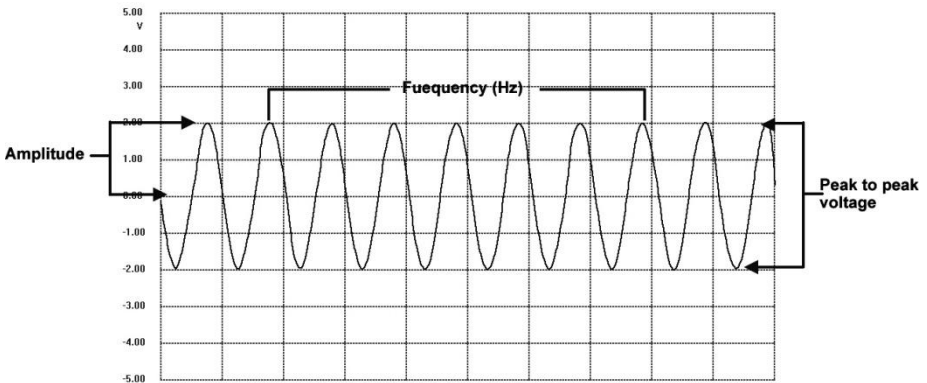


Figure 16-1 Sample Sinusoidal Waveform

Amplitude

This term indicates the maximum voltage generated from the zero volts line of the oscilloscope.

Frequency

This term describes the number of signal occurrences per second. Frequency is measured in Hz (hertz).

Square Waveform

This term describes the waveform characteristics normally generated by signals switching between clearly defined voltage levels, such as a Hall effect sensor signal may create by switching a voltage to ground. A typical digital square waveform is shown below:

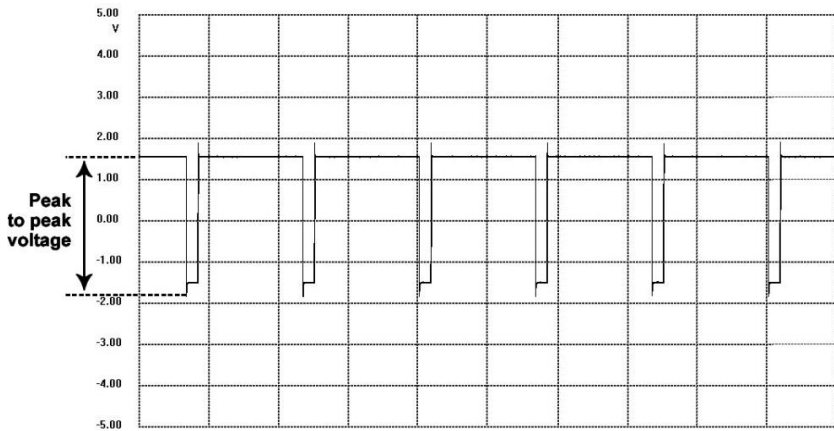


Figure 16-2 *Sample Square Waveform*

Peak to peak voltage

This term indicates the difference in voltage between the minimum and maximum voltages occurring in the waveform.

16.3 MaxiScope Module

The MaxiScope Automotive Oscilloscope tool kit is optional and available for purchase along with the MaxiSys package. There are 2 versions (basic and advanced versions) available.

The MaxiScope tool kit comes standard with:

- MaxiScope Module
- CD with user manual and PC software
- USB Cable
- Other probe accessories

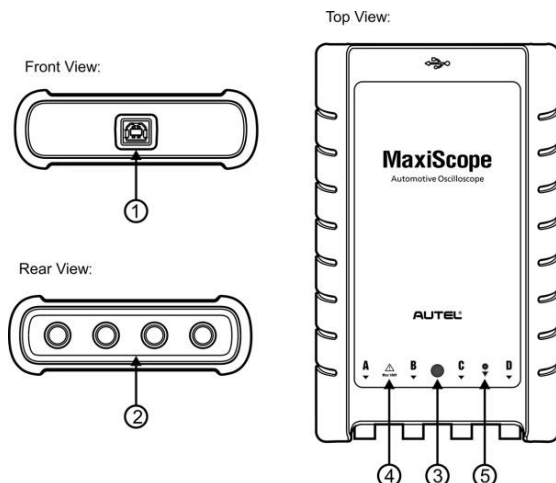


Figure 16-3 *Front, Rear, and Top View*

1. **USB Port Connector**
2. **Input Channel A/B/C/D**
3. **LED Indicator Light** – lights up when powered on, blinks when communicating, and shimmers when error occurs
4. **Warning Triangle** – indicates potential safety hazard that exists on the indicated connections, and appropriate precautions should be taken. Make sure you read through the [Safety Information](#) on page 114 before using.
5. **Equipotential Symbol** – indicates the outer shells of the indicated BNC connectors are all at the same potential. Therefore, necessary precautions should be taken to avoid applying a potential through the return connections of the indicated BNC terminals, as this may result in a large current flow, causing damage to the product and the connected equipment.

Power Source

The MaxiScope MP408 Scope Module is powered directly by the USB port of the connected PC, no batteries or power leads are required, making it suitable for use both for workshop-based and mobile automotive diagnostics.

Technical Specifications

Main Features		Description
Vertical resolution		12 bits
Channels		4
Bandwidth		20MHz
Accuracy		Voltage: 1%; Time: 50ppm
Sensitivity		10mV/div to 20V/div
Input Ranges (full scale)		$\pm 50\text{mV}$ to $\pm 100\text{V}$ in 11 ranges
Input Impedance		1M Ω in parallel with 22pF
Input Type		Single-ended, BNC connector
Input Coupling		Software selectable AC/DC
Overload Protection		$\pm 200\text{V}$ on single input
Maximum Sampling Rate (Single Shot)		
1 or 2 channels in use		80MS/s*
3 or 4 channels in use		20MS/s
Buffer Memory		32M samples shared among active channels
Waveform Buffer		Up to 1000 waveforms
Timebase Ranges		100ns/div to 1000s/div
Advanced Features		Math channels, Measurements
Triggers		Description
Source		Any input channel
Basic Triggers		Auto, Normal, Single, None
Advanced Triggers		Rising edge, Falling edge
Environmental		Description
Operating Temperature Range		0 to 50°C (15 to 40°C for quoted accuracy)
Storage Temperature Range		-20 to +60°C
Storage Humidity Range		5 to 95%RH, Non-condensing
Physical Characteristics		Description
Dimensions (Protection rubber case included)		190X115X38mm
Weight		<0.5kg

General	Description
PC Interface	USB 2.0 – cable supplied
Power Requirements	Powered from USB port
Compliance	FCC (EMC), CE (EMC and LVD), RoHS
Warranty	1 year

NOTE*: Reduced to 20MS/s if channels A and B, or C and D, are enabled.

16.4 Screen Layout and Operations

The Oscilloscope application works as a signal processing program that displays the shape of electrical signals onscreen with a live graph showing voltage against time. The grid on the screen shows divisions of voltage and time to enable measurements to be made.

Units of voltage per division are shown down the side of the scope screen while units of time per division are shown along the bottom. The graph is referred to as a waveform and the scope repeatedly draws the trace across the screen from left to right.

Before performing the Oscilloscope application, the MaxiScope Module must be connected to the Display Tablet. Apply appropriate probe accessories supplied with the MaxiScope tool kit for use in various tests.

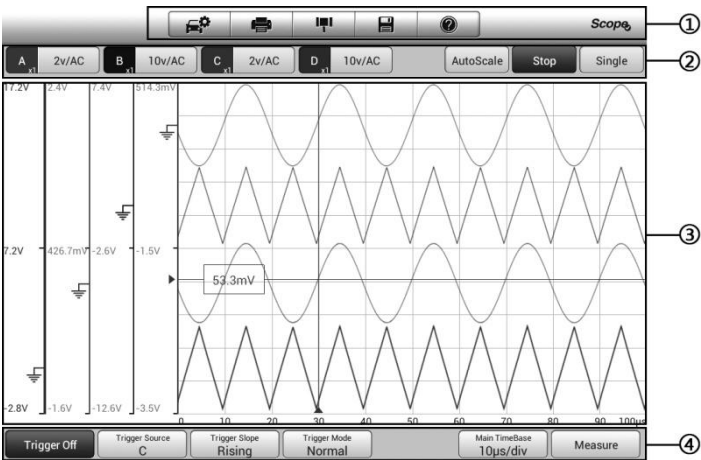


Figure 16-4 Sample Oscilloscope Application Screen Layout

1. **Top Toolbar** – used for configurations of various settings and operations of the scope
2. **Functional Buttons** on the top – used for configurations of channel activation, measurement scale and trigger settings
3. **Measurement Grid** - displays measurements of voltage against time
4. **Functional Buttons** at the bottom – used for configurations of trigger, time base, and measurement parameter display settings.

16.4.1 Top Toolbar

The top toolbar contains various functional buttons with options for operations and configurations of the MaxiScope, the operations of which are described in the table below:

Table 16-1 *Toolbar Buttons*

Button	Name	Description
	Car	This option provides a library of waveforms. Selecting one allows automatic set-up of the scope to capture a waveform of the specified waveform type. (Coming soon)
	Print	Saves and prints a copy of the displayed data. See 3.3.1 Printing Operation for additional information on page 17.
	Tool	Tapping this button opens a settings window with options to configure various measurement tools for reference and assessment of data analysis: • Tap Select a Math Channel option to select a match channel. • Tap Select a Probe option to select a predefined probe. • Tap Cache Setting to set the cache.

Button	Name	Description
	Save	Tapping this button opens a submenu, on which displays 5 options allowing you to save, record and plays back the waveform data. • Tap Save current page to take a screenshot image. • Tap Record data to save the current waveform data. • Tap Save Ref to save a copy of an existing signal waveform as reference. • Tap Review data allows selecting and reviewing the previously stored waveform recordings. • Tap Recall Ref to retrieve the saved reference waveforms. All saved images are stored in the Data Manager application for later reviews. See Data Manager Operations on page 84.
	Help	Provides instructions or tips for operations of various functions.
	Scope Icon	Indicates the scope connection status. Tapping the icon allows to reset the USB connection when communication with the Scope Module fails. See 16.5 Troubleshooting on page 129 for more information.

Math Channel

A math channel is virtual channel generated by mathematical function of the input channel. It can be displayed in a scope in the same way as an input signal, and like an input signal it has its own measure axis, scaling and color. The MaxiScope module has a set of built-in math channels for the most important functions, including “A+B” (the sum of channels A and B) and “A-B” (the difference between channels A and B).

➤ To use a math channel:

1. Tap the **Tool** button in the Top Menu.
2. Tap the **Select a Math Channel** option on the left column.
3. Tap the desired option on the right column to enable the math channel in the channel list.
4. The Math Channel displays on the MaxiScope screen.

Probe

A probe is any transducer, measuring device or other accessory that you connect to an input channel of your MaxiScope module.

Reference Waveform

A Reference Waveform is a copy of an existing signal waveform saved as a reference. It can be retrieved to display as a comparative reference to examine a live signal. Up to 4 reference waveforms can be saved.



Figure 16-5 *Ref. Waveform Save Window*

➤ To create a Reference Waveform:

1. Tap the **Tool** button in the Top Menu.
2. Select **Save Ref.** in the dropdown menu.
3. Select the channel to which the desired waveform belongs.
4. Name the reference waveform by selecting R1, R2, R3 or R4 in the popup window.
5. Tap on the **Yes** icon to save, or **No** icon to cancel.

Recall Reference

The saved reference waveforms can be retrieved by clicking Recall Ref in the dropdown menu of the Tool button.

➤ To recall reference waveforms:

1. Tap **Tool** button on the Top Menu.
2. Select **Recall Ref** in the dropdown menu and a popup window will display. Available reference waveform items are highlighted in blue.
3. Select the desired reference waveform by ticking the check box alongside.
4. Tap **Yes** and the selected reference waveform will appear on the scope screen.

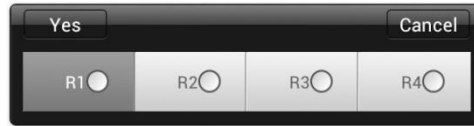


Figure 16-6 Recall Reference Waveform Window

16.4.2 Functional Buttons

This group of buttons is used for configurations of channel activation, measurement scale and trigger settings, the operations of which are described below:

- **Channel Control Buttons A/B/C/D** - tapping each button allows you to activate or deactivate the corresponding channel; long pressing the button opens a window, which allows you to select and configure appropriate probes for specific tests.

The Channel Control Buttons are displayed in different colors as follows:

- A. Red
 - B. Green
 - C. Blue
 - D. Pink
- **AC/DC Coupling and Voltage Scale Buttons** – tapping this button opens a dropdown menu, on which you can select AC or DC measurements and adjust voltage measurement scales.

The Auto voltage scale option enables the scope to adjust the voltage scale automatically to capture the signal.
 - **AutoScale** – tapping this button enables automatic set-up of the voltage scale and time base for the signals received.
 - **Start/Stop** – tapping this button turns on/off the scope.
 - **Single** – tapping this button activates the Single trigger mode when the trigger is on. The Single trigger mode configures the trigger to occur once when the scope captures the first signal waveform by the preset trigger point.

16.4.3 Measurement Grid

The 2 control features - Voltage per division and Time per division – enable the users to adjust the scope settings to suit the particular test measurement.

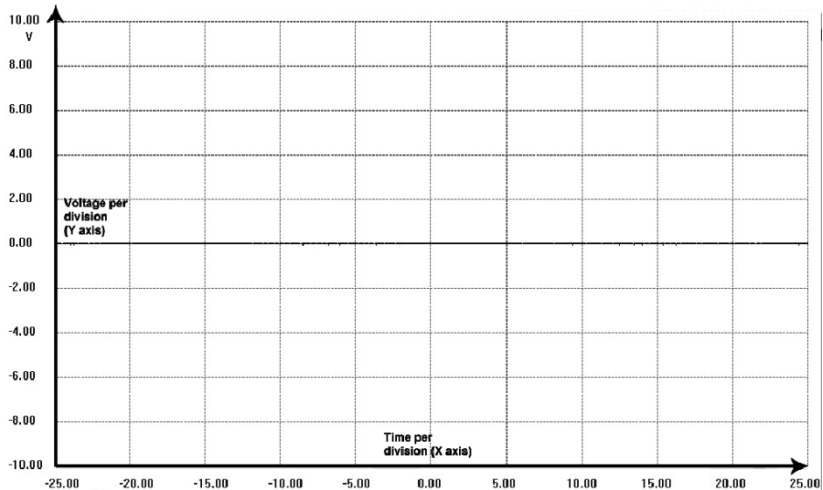


Figure 16-7 Sample Measurement Grid

- **Voltage per division** – shown down the left side of the screen, referred to as the Y-axis
- **Time per division** – shown along the bottom of the screen, referred to as the X-axis

Multiple Scope Channels

The MaxiScope software features multiple channel display which enables more than one waveform to be displayed at the same time. It is useful for making comparisons among different signals. The voltage per division for each channel is adjusted individually while the time base per division is the same for all channels.

➤ To adjust the voltage scale

1. Tap the specific Y-axis of the corresponding channel to enable scale adjustment. The selected Y-axis is highlighted with thicker dividing line.
2. Adjust the voltage scale of the selected channel with the typical 2-finger zoom gestures.
3. The 0 volts is hinted with a pointer reference line. Slide the pointer

line up and down to move and view different areas of the scale.

4. Tap once on the screen area outside of the Y-axis to finish the voltage scale adjustment.

➤ **To adjust the time base scale**

1. Unselect the Y-axis if it's activated.
2. Use your 2 fingers to adjust the time base with the typical zoom gestures on the measurement grid area.

16.4.4 Measurement Rulers

The Measurement Rulers allow the voltage and time duration of a waveform to be measured precisely. There are 2 kinds of measurement rulers: the vertical **Time Ruler** and the horizontal **Voltage Ruler**.

Tap on the **Ruler Activator** on the bottom right corner of the measurement grid and drag it across the screen to the desired position, a **Time Ruler** is generated.

The **Voltage Ruler** can be generated in the similar way by clicking the **Ruler Activator** on the top left corner and dragging it downwards.

When **Measurement Rulers** are generated, a **Ruler Table** showing time and voltage values for the corresponding channels will be displayed. The **Delta** icon refers to the absolute difference between the values of the 2 rulers, which can be locked by tapping the **Lock** icon.

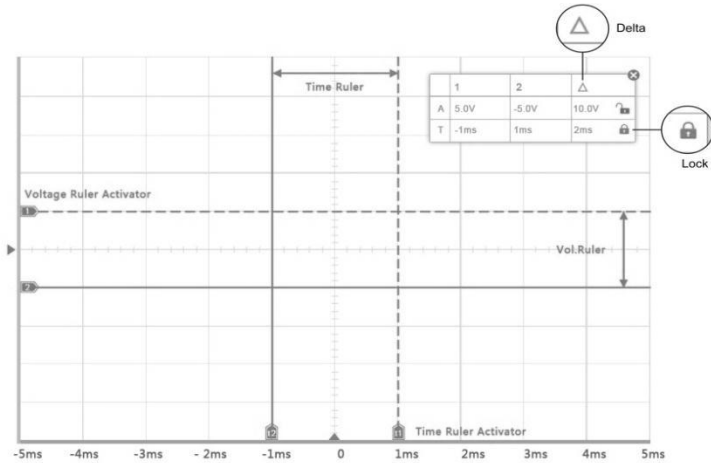


Figure 16-8 Measurement Rulers Display

16.4.5 Functional Buttons

This group of buttons includes trigger setting buttons allowing you to set trigger source and trigger mode, a Time base button for adjustment, and a Measurement button with options for various measurement types.

- **Trigger On/Off** – taps to turn on/off the trigger. The button displays as Trigger Off when it is activated, and vice versa.

Once the trigger is activated, a voltage scale reference line and a time base reference line will be displayed on the measurement grid, the cross point of the 2 lines indicates the trigger point, allowing users to adjust its position by moving each of the 2 lines.

- **Trigger Source** – assigns the trigger to a specific channel
- **Trigger Slope** – sets trigger to occur by rising or falling voltage edges
- **Trigger Mode** – configures the trigger mode:
 - Normal Mode** – configures the trigger to occur every time when the captured signal waveform reaches the trigger point, so the scope starts to draw the waveform when the signal reaches the trigger point.

- B. **Auto Mode** - configures the trigger to occur every time when the scope captures the signal waveforms by the preset trigger point. The scope continues to draw the waveforms even when the signal is not in the trigger point range.
- **Main Time Base** – allows users to select an appropriate time per division. The time per division (10 divisions) is displayed along the bottom of the screen. The time base adjustment affects all of the active scope channels at once.
- **Measure** - allows users to select various types of measurement parameters to be displayed at the right side of the screen for reference.
A maximum of 5 items each time are allowed to be selected.

➤ **To set a specific trigger point**

1. Tap the **Trigger On** button to activate the trigger.
2. Configures the specific trigger source, the trigger slope and the trigger mode according to the test demand.
3. Tap and slide the voltage scale reference line up or down to the desired voltage point. The voltage info is displayed in a small reference box.
4. Tap and slide the time base reference line left or right to the desired point.
5. Tap **Start** button on the top right side of the screen to activate the scope

16.5 Troubleshooting

If the MaxiScope is not communicating with the Display Tablet, you need to do the followings:

- Check if the MaxiScope is properly connected to the Display Tablet through the supplied USB cable.
- If the MaxiScope is already connected to the Display Tablet, but the communication between the devices has failed, tap the **Scope Icon** on the top right side of the screen to reset the USB connection.

IMPORTANT: All vehicle communications must be terminated before resetting the USB connection to avoid damage to the devices and the vehicle. The Internet connection may be aborted during USB reset.

- If the communication between the MaxiScope and the Display Tablet still fails after USB reset, restart the Display Tablet and reconnect the MaxiScope.

16.6 MaxiScope Firmware Update

The operating software of the MaxiScope is continuously being developed, and the update package can be downloaded free from the MaxiScope product webpage on Autel's website: <http://www.autel.com>.

➤ **To update the MaxiScope firmware**

1. Install the CD provided with the MaxiScope tool kit into the CD-ROM of the computer. The driver installation wizard will load momentarily.
2. Click on **Next** on the welcome page.
3. Click the **Browse** button, and select a destination folder to install the program, and click **Next** to continue. Or directly click **Next** to continue without changing the default installation folder.
4. Click **Install** and the Setup.exe program will be installed onto the computer.
5. After the installation is completed, connect the MaxiScope to the computer using the USB cable provided by the tool kit.
6. Locate and double click the **MaxiScope Update** icon on desktop, and the Firmware Update window will pop up onscreen.
7. Click on **Select File** to locate the newly downloaded firmware update package.
8. Click on the dropdown menu icon by the **Set Language** option at the top right of the window to select a desired language.
9. Click on **Update** to start updating.

Chapter 17 Digital Inspection Operations

The Digital Inspection application configures the Display Tablet to operate as a digital video scope by simply connecting the tablet to a Digital Inspection Camera. This function allows you to examine difficult-to-reach areas normally hidden from sight, with the ability to record digital still images and videos, which offers you an economical solution to inspect machinery, facilities, and infrastructure in a safe and quick way.



WARNINGS & IMPORTANTS:

Follow these instructions to reduce the risk of injury from electric shock, entanglement and other causes and prevent tool damage.

- Do not place the imager head and cable into anything or anywhere that may contain a live electric charge or moving parts, which increases the risk of electric shock or entanglement injuries.
- Do not use the imager head cable to modify surroundings, clear pathways or clogged areas.
- When inspection is completed, carefully withdraw the imager head and cable from the inspection area.
- The imager head cable were waterproof to a depth of 3m (10'), greater depths may cause leakage into the imager head cable and cause electric shock or damage the tool.
- The working temperature of the imager head is between 32 °F (0 °C) and 113 °F (45 °C).

Check-Ups:

- ✓ **FOR AUTOMOBILES:** Ensure the automobile is not running during inspection. Metal and liquid under the hood may be hot. Don't get oil or gas on the imager head.
- ✓ **FOR PIPES:** If you suspect a metal pipe could contain an electric charge, have a qualified electrician to check the pipe before using.
- ✓ **FOR WALLS:** For inspecting the inside walls, be sure to shut off the circuit breaker to the whole house before using the tool.
- ✓ **WORK AREA:** Ensure the work area has sufficient light.

17.1 Additional Accessories

The Digital Inspection Camera and its fittings are the additional accessories. Both sizes (**8.5 mm and 5.5 mm**) of the imager head are optional and available for purchase along with the standard MaxiSys tool kit.

Digital Inspection Camera

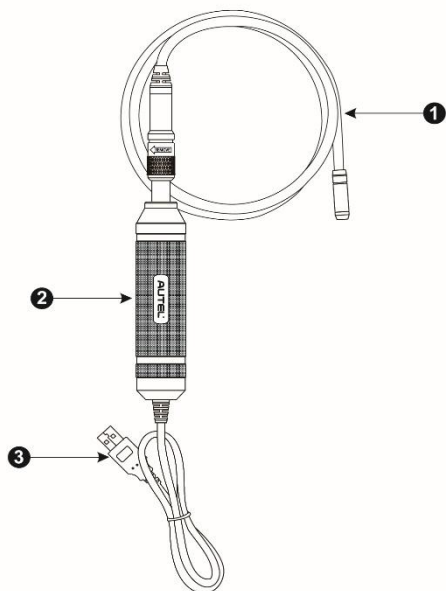


Figure 17-1 *Digital Inspection Camera*

1. **Removable Imager Head Cable** – connects to the tool when performing digital inspections for image and video viewing
2. **Handgrip** – ergonomically designed handle for comfortable grips and agile operation
3. **USB Cable** – connects the Digital Inspection Camera to MaxiSys tablet

Imager Head Accessories

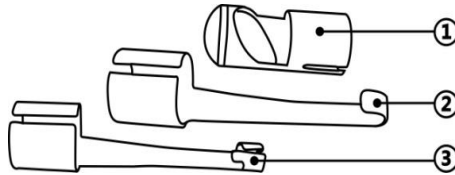


Figure 17-2 8.5mm Imager Head Accessories

1. **Magnet** – picks up small metal objects, such as dropped rings or screws
2. **Hook** – unclogs obstacles and picks up wires in the pipes or confined areas
3. **Mirror** – helps to look around corners and see the unreachable areas

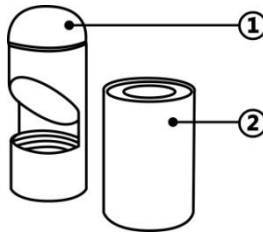


Figure 17-3 5.5mm Imager Head Accessories

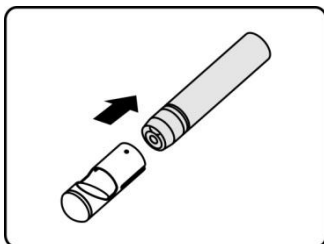
1. **Mirror** – helps to look around corners and see the unreachable areas
2. **Magnet** - picks up small metal objects, such as dropped rings or screws

Accessory Assembly

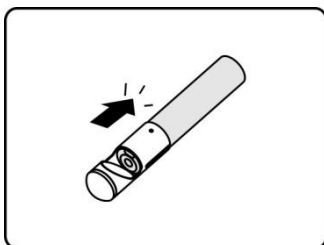
For 8.5mm Imager Head

The three accessories, including the Magnet, Hook, and Mirror (**Figure 17-2**), can be attached to the Imager Head with the same manner described below:

1. Hold the accessory and the imager head.



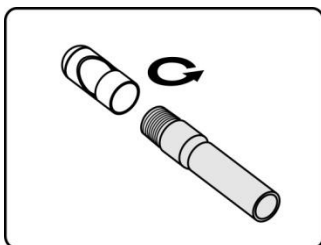
2. Slip the end of the accessory over the imager head and then fix the accessory.



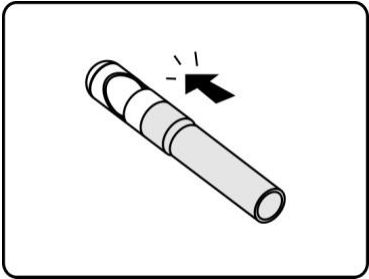
For 5.5mm Imager Head

The two accessories, including the Magnet and Mirror ([Figure 17-3](#)), can be attached to the Imager Head with the same manner described below:

1. Hold the accessory and the imager head.



- 2. Screw the thread part of the accessory over the imager head to fix the accessory.



17.1.1 Technical Specifications

Item	Description
Optimal Viewing Distance	1" to 14" (2.54cm to 35.56cm) with 8.5mm diameter imager head 3/8" to 12" (0.95cm to 30cm) with 5.5mm diameter imager head
Image Capture	JPG images (640x480) AVI videos (320 x 240)
Operating Temperature	Main Unit: 0°C to 55°C (ambient) Cable: -10°C to 70°C
Storage Temperature	-20°C to 75°C (ambient)
Waterproof	Imager head and cable to 1m
Weight	0.3kg with 8.5mm diameter imager head 0.2kg with 5.5mm diameter imager head

17.2 Operations

Before performing the Digital Inspection application, the Imager Head Cable must be connected to the Display Tablet through the USB port. Install the correct imager head accessories for use in the appropriate application.

NOTE: When in operation, the imager head cable can be bent into a certain shape. This may help you operate the cable into confined areas.

➤ **To take pictures using the Digital Inspection application**

1. Connect the Imager Head Cable to the USB port on the top side of the Display Tablet.
2. If not already done, power up the Display Tablet.
3. Tap the **Digital Inspection** application on the MaxiSys Job Menu. The Digital Inspection application interface displays, showing a camera operating screen. The default camera is now the Imager head.
4. Select the **camera** icon at the lower right corner to take photos.
5. Focus the image to be captured in the view finder by adjusting and properly locating the imager head cable.
6. Tap the blue ring on the operating screen. The view finder now shows the captured picture and auto-saves the taken photo.
7. Tap the thumbnail image on the top right corner of the screen to view the stored image, slide the screen left and right to view the images one by one.
8. Tap on the selected image and the edit toolbar instantly displays.
9. Tap the appropriate button to **share**, **delete**, or **edit** the image.
10. Tap the **Back** or **Home** button on the Navigation bar at the bottom of the screen to exit the Digital Inspection application.

➤ **To record a video using the Digital Inspection application**

1. Connect the Imager Head Cable to the USB port on the top side of the Display Tablet.
2. If not already done, power up the Display Tablet.
3. Tap the **Digital Inspection** application on the MaxiSys Job Menu. The Digital Inspection application interface displays, showing a camera operating screen. The default camera is now the Imager head.
4. Select the **video** icon at the lower right corner to record a video.
5. Properly locate the imager head cable to focus the inspection scene for recording.

6. Tap the red ring on the operating screen to start recording.
7. Tap the red circle again to stop recording. The recorded video is automatically saved to the system Gallery.
8. Tap the thumbnail image on the top right corner to review the recorded video.
9. Tap the **Play** button to play the video.
10. Tap on the selected video and the edit toolbar instantly displays.
11. Tap the appropriate button to **share**, **delete**, or **edit** the video.
12. Tap the **Back** or **Home** button on the Navigation bar at the bottom of the screen to exit the Digital Inspection application.

➤ **To configure various settings for the work mode of the imager head**

1. Tap  button at the bottom edge of the circle.
2. Select each item to make appropriate adjustments.

For more tips and detailed information about the camera application, please refer to associated Android documentations.

Chapter 18 Maintenance and Service

To ensure that the MaxiSys diagnostic tablet and the combined VCI unit perform at their optimum level, we advise that the product maintenance instructions covered in this section is read and followed.

18.1 Maintenance Instructions

The following shows how to maintain your devices, together with precautions to take.

- Use a soft cloth and alcohol or a mild window cleaner to clean the touch screen of the tablet.
- Do not use any abrasive cleansers, detergent, or automotive chemicals to the tablet.
- Maintain the devices in dry conditions and keep them within normal operating temperatures.
- Dry your hands before using the tablet. The touch screen of the tablet may not work if the touch screen is moist, or if you tap the touch screen with wet hands.
- Do not store the devices in humid, dusty or dirty areas.
- Check the housing, wiring, and connectors for dirt and damage before and after each use.
- At the end of each work day, wipe the device housing, wiring, and connectors clean with a damp cloth.
- Do not attempt to disassemble your tablet or the VCI unit.
- Do not drop or cause severe impact to the devices.
- Use only authorized battery chargers and accessories. Any malfunction or damage caused by the use of unauthorized battery charger and accessories will void the limited product warranty.
- Ensure that the battery charger does not come in contact with conductive objects.
- Do not use the tablet beside microwave ovens, cordless phones and some medical or scientific instruments to prevent signal interference.

18.2 Troubleshooting Checklist

A. When the Display Tablet does not work properly:

- Make sure the tablet has been registered online.
- Make sure the system software and diagnostic application software are properly updated.
- Make sure the tablet is connected to the Internet.
- Check all cables, connections, and indicators to see if the signal is being received.

B. When battery life is shorter than usual:

- This may happen when you are in an area with low signal strength. Turn off your device if is not in use.

C. When you cannot turn on the tablet:

- Make sure the tablet is connected to a power source or the battery is charged.

D. When you are unable to charge the tablet:

- Your charger maybe out of order. Contact your nearest dealer.
- You may be attempting to use the device in an overly hot/cold temperature. Try changing the charging environment.
- Your device may have not been connected to the charger properly. Check the connector.

NOTE: If your problems persist, please contact Autel's technical support personnel or your local selling agent.

18.3 About Battery Usage

Your tablet is powered by a built-in Lithium-ion Polymer battery. This means that, unlike other forms of battery technology, you can recharge your battery while some charge remains without reducing your tablet's autonomy due to the "battery memory effect" inherent in those technologies.



DANGER: The built-in Lithium-ion Polymer battery is factory replaceable only; incorrect replacement or tampering with the battery pack may cause an explosion.

- Do not use a damaged battery charger.
- Do not disassemble or open crush, bend or deform, puncture or shred.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, expose to fire, explosion or other hazard.
- Make sure to use the charger and USB cables only that come together in the package. If you use the other charger and USB cables, you might incur malfunction or failure of the device.
- Only use the charging device that has been qualified with device per the standard. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Avoid dropping the tablet. If the tablet is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.
- The closer you are to your network's base station, the longer your tablet usage time because less battery power is consumed for the connection.
- The battery recharging time varies depending on the remaining battery capacity.
- Battery life inevitably shortens over time.
- Since over charging may shorten battery life, remove the tablet from its charger once it is fully charged. Unplug the charger, once charging is complete.
- Leaving the tablet in hot or cold places, especially inside a car in summer or winter, may reduce the capacity and life of the battery. Always keep the battery within normal temperatures.

18.4 Service Procedures

This section introduces information for technical support, repair service, and application for replacement or optional parts.

Technical Support

If you have any question or problem on the operation of the product, please:

- Call 1-855-288-3587/1-855-AUTELUS (North America), or 0086-755-86147779 (China).
- Contact the local distributor or agent.
- Visit our website <http://pro.autel.com> or www.autel.com.

Repair Service

If it becomes necessary to return your device for repair, please download the repair service form from www.autel.com, and fill in the form. The following information must be included:

- Contact name
- Return address
- Telephone number
- Product name
- Complete description of the problem
- Proof-of-purchase for warranty repairs
- Preferred method of payment for non-warranty repairs

NOTE: For non-warranty repairs, payment can be made with Visa, Master Card, or with approved credit terms.

Send the device to your local agent, or to the below address:

8th Floor, Building B1, Zhiyuan,
Xueyuan Road, Xili, Nanshan,
Shenzhen, 518055, China

Other Services

You can purchase the optional accessories directly from Autel's authorized tool suppliers, and/or your local distributor or agent.

Your purchase order should include the following information:

- Contact information
- Product or part name
- Item description
- Purchase quantity

Chapter 19 Compliance Information

FCC Compliance

FCC ID: WQ8MAXISYSMS906TS (for MaxiSys MS906TS)

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.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

SAR:

The device has been tested and is compliant with SAR limits, users can obtain information on SAR report and compliance. Nevertheless, the device should be used in such a manner that the potential for human contact is minimized during normal operation.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/Kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with

the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. To avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to antenna should be minimized.

Chapter 20 Warranty

12-Month Limited Warranty

Autel Intelligent Technology Corp., Ltd. (the Company) warrants to the original retail purchaser of this MaxiSys Diagnostic Device, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within twelve (12) months period from the date of delivery, such defect(s) will be repaired, or replaced (with new or rebuilt parts) with Proof of Purchase, at the Company's option, without charge for parts or labor directly related to the defect(s).

The Company shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the device. Some states do not allow limitation on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty does not apply to:

- a) Products subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
- b) Products whose mechanical serial number or electronic serial number has been removed, altered or defaced;
- c) Damage from exposure to excessive temperatures or extreme environmental conditions;
- d) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
- e) Defects in appearance, cosmetic, decorative or structural items such as framing and non operative parts.
- f) Products damaged from external causes such as fire, dirt, sand, battery leakage, blown fuse, theft or improper usage of any electrical source.

IMPORTANT: All contents of the product may be deleted during the process of repair. You should create a back-up copy of any contents of your product before delivering the product for warranty service.
