USER MANUAL

MAXISYS ADAS MA800

(AUTEL-CSCE800)



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IMPORTANT

Before operating or maintaining this equipment, please read this manual carefully, paying extra attention to the safety warnings and precautions.

For Services and Support

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Safety Information

For your own safety and the safety of others, and to prevent damage to the equipment and vehicles upon which it is used, it is important that the safety instructions presented throughout this manual be read and understood by all persons operating or coming into contact with the equipment.

There are numerous procedures, techniques, tools, and parts required for servicing vehicles, as well as the skills of the person doing the work. Because of the vast number of test applications and variations in the products that can be tested with this equipment, we cannot possibly anticipate or provide advice or safety messages to cover every circumstance. It is the automotive technician's responsibility to be knowledgeable of the system being tested. It is crucial to use proper service methods and test procedures. It is essential to perform tests in an appropriate and acceptable manner that does not endanger your safety, the safety of others in the work area, the device being used, or the vehicle being tested.

Before using the equipment, always refer to and follow the safety messages and applicable test procedures provided by the manufacturer of the vehicle or equipment being tested. Use the equipment only as described in this manual. Be sure to read, understand, and follow all safety messages and instructions in this manual.

Safety Messages

Safety messages are provided to help prevent personal injury and equipment damage. All safety messages are introduced by a signal word indicating the hazard level.

⚠ DANGER

Indicates an imminently hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders.

⚠ WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders.

Safety Instructions

The safety messages herein cover situations Autel is aware of at the time of publication. Autel cannot know, evaluate or advise you as to all of the possible hazards. You must be certain that any condition or service procedure encountered does not jeopardize your personal safety.

⚠DANGER

When an engine is operating, keep the service area WELL VENTILATED or attach a building exhaust removal system to the engine exhaust system. Engines produce carbon monoxide, an odorless, poisonous gas that causes slower reaction time and can lead to serious personal injury or loss of life.

It is not advised to use headphones at a high volume.

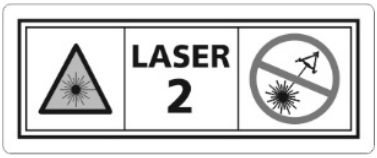
Listening at high volumes for long periods of time may result in loss of hearing.

⚠Safety Warnings

- Always perform automotive testing in a safe environment.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Operate the vehicle in a well-ventilated work area, for exhaust gases are poisonous.
- Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while testing.
- Be extra cautious when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- Keep a fire extinguisher suitable for gasoline, chemical, and electrical fires nearby.
- Do not connect or disconnect any test equipment while the ignition is on or the engine is running.
- Keep the test equipment dry, clean, free from oil, water or grease. Use a mild detergent on a clean cloth to clean the outside of the equipment as necessary.
- Do not drive the vehicle and operate the test equipment at the same time. Any distraction may cause an accident.
- Refer to the service manual for the vehicle being serviced and adhere to all diagnostic procedures and precautions. Failure to do so may result in personal injury or damage to the test equipment.
- To avoid damaging the test equipment or generating false data, make sure the vehicle battery is fully charged and the connection to the vehicle's DLC is clean and secure.
- Do not place the test equipment on the distributor of the vehicle. Strong electro-magnetic interference can damage the equipment.

LASER RADIATION

Never point the laser beam at people, particularly at their face or eyes.



The term laser equipment refers to devices, systems or test set-ups generating, transmitting or employing laser radiation.

The class of the laser device indicates the level of potential danger associated with its accessible laser radiation. In the case of class II laser equipment, the accessible laser radiation is in the visible spectral range (400 nm to 700 nm).

The eyelids provide sufficient protection for inadvertent brief eye contact with such laser radiation. Class II laser devices may therefore be used without further precautionary measures if the user is definitely not required to either look into the laser intentionally for extended periods of time (>0.25 s) or repeatedly look into the laser or at directly reflected laser radiation.

⚠ WARNING

Taking medication or alcohol consumption will slow down the reflex action of the eyelids. This results in a particular risk. Wearing laser safety glasses of protection level R1 is recommended for anyone who is under the influence of medication.

Persons who are not trained to work with laser equipment and on the hazards of laser radiation may not enter workplaces where work takes place with laser beams or a laser emitting device.

Safety measures:

- The operator is to place the warning “Warning of Laser beam” at eye level and in a visible manner at the measuring station.
- Do not look directly into laser source.
- The operator must comply with the intended use.

INFRARED RADIATION



Infrared device inside. Avoid direct eye exposure.

Hot surface. Avoid contact directly.

Safety measures:

- The operator is to place the warning “Warning of Infrared Radiation” at eye level and in a visible manner at the measuring station.
- Do not look directly into IR source.
- The operator must comply with the intended use of the product.

WEAR SAFETY SHOES



Safety shoes must be worn.

When performing work with risk of injury to the feet, notice about the necessity of wearing protective shoes must be given. Foot injuries can, for example, be caused by falling over or falling tools or work items, trapping the foot, occurrence of nails or metal shavings in the soles, etc.

Safety measures:

- The operator is to place the mandatory sign “Wear Safety Shoes” at eye level and in a clearly visible manner at the measuring station.
- Operators should always wear the recommended protective shoes.

CONTENTS

1 USING THIS MANUAL 1

1.1 CONVENTIONS 1

1.1.1 Bold Text 1

1.1.2 Notes and Important Messages 1

1.1.3 Hyperlinks 2

1.1.4 Illustrations 2

1.1.5 Procedures 2

2 GENERAL INTRODUCTION 3

2.1 SAFETY INSTRUCTIONS AND PRECAUTIONS 3

2.2 PRODUCT DESCRIPTION 4

3 ACCESSORIES 7

3.1 STANDARD ACCESSORIES 7

3.2 OPTIONAL ACCESSORIES (NOT INCLUDED) 8

3.2.1 Calibration Tool for ACC System 8

3.2.2 Calibration Tool for LDW System 9

3.2.3 Calibration Tool for NV System 12

3.2.4 Calibration Tool for AVM System 13

3.2.5 Calibration Tool for RCW System 15

3.2.6 Calibration Tool for BSD System 16

3.2.7 Calibration Tool for HUD System 16

3.3 TECHNICAL SPECIFICATIONS 17

3.3.1 Two-line Laser 17

3.3.2 Two-line Laser for Centerline 17

3.3.3 Laser Measure Unit 18

3.3.4 Mercedes Benz Night Vision Calibrator....18
3.3.5 Volkswagen Night Vision Calibrator....19
4 ADAS SETTINGS....20
4.1 MA800 ADAS SOFTWARE ACTIVATION....20
4.2 COMMON SETTINGS....23
4.2.1 Laser Distance Measurer Installation....23
4.2.2 ADAS Measurement Tool Selection....23
4.2.3 ADAS Calibration Parameter Settings....25
4.3 LASER DISTANCE MEASURER BLUETOOTH....25
4.4 LASER DISTANCE MEASURER UPDATE....26
4.5 MAINTENANCE & SERVICE....27
5 ADAS CALIBRATION FUNCTION....31
5.1 ON-BOARD CAMERA....31
5.1.1 Select Calibration Situations....31
5.1.2 Select the Vehicle Parking Spot....32
5.1.3 Prepare the Calibration Site....33
5.1.4 Prepare Calibration Tools....33
5.1.5 Prepare the Vehicle....34
5.1.6 Position the Auxiliary Tools....35
5.1.7 Position the Calibration Tools....44
5.2 NIGHT VISION SYSTEM....47
5.2.1 Select Calibration Situations....47
5.2.2 Prepare the Calibration Site....48
5.2.3 Prepare Calibration Tools....48
5.2.4 Prepare the Vehicle....49
5.2.5 Position the Auxiliary Tools....50

5.2.6 Position the Calibration Tools 58

6 MAINTENANCE AND SERVICE 62

6.1 MAINTENANCE INSTRUCTIONS 62

6.2 SERVICE PROCEDURES 62

6.2.1 Technical Support 62

6.2.2 Repair Service 64

6.2.3 Other Services 65

7 COMPLIANCE INFORMATION 66

1 Using This Manual

This manual contains device usage instructions.

Some illustrations shown in this manual may contain modules and optional equipment that are not included in your system. Contact your sales representative for the availability of other modules and optional tools or accessories.

1.1 Conventions

The following conventions are used:

1.1.1 Bold Text

Bold text is used to highlight selectable items such as buttons and menu options.

Example:

- Tap **OK**.

1.1.2 Notes and Important Messages

1.1.2.1 Notes

A **NOTE** provides helpful information such as additional explanations, tips, and comments.

Example:

NOTE

The built-in lithium-ion polymer battery is factory replaceable only; incorrect replacement or tampering with the battery pack may cause an explosion.

1.1.2.2 Important Messages

IMPORTANT indicates a situation which, if not avoided, may result in damage to the tablet or vehicle.

Example:

IMPORTANT

Before operating or maintaining this equipment, please read this manual carefully, paying extra attention to the safety warnings and precautions.

1.1.3 Hyperlinks

Hyperlinks are available in electronic documents. Blue italic text indicates a selectable hyperlink; blue underlined text indicates a website link or an email address link.

1.1.4 Illustrations

As the illustrations used in this manual are samples, the actual testing screen may vary for each vehicle being tested. Observe the menu titles and on-screen instructions to make correct option selection.

The illustrations are based on the default settings in **ADAS Settings**, and you can change the settings according to your needs and actual situations. Please refer to *ADAS Settings* for details.

1.1.5 Procedures

An arrow icon indicates a procedure.

Example:

➢ **To update the laser measure unit**

1. On the ADAS Settings screen, select **Laser Distance Measurer Update** to proceed.
2. Tap **Update Now** to update the device.

2 General Introduction

Autel MaxiSys ADAS MA800 is designed for fast and easy Advanced Driver-Assistance Systems (ADAS) calibration. It provides vehicle-specific and step-by-step instructions through the compatible diagnostic tablet, enabling the technician to perform efficient and accurate calibrations.

2.1 Safety Instructions and Precautions

1. Check the power supply, and make sure the power supply voltage is stable and properly grounded.
2. Carefully position the cord so that it does not snag or tangle.
3. To reduce the risk of electric shock, do not use the equipment on rainy or wet ground.
4. Do not use or store the equipment in places with heavy smoke, dust, and fog.
5. When the calibration frame is moved to a desired position, rotate the adjustable feet clockwise and press down the foot brakes to prevent the calibration frame from moving.
6. Avoid using the calibration frame in environments with strong vibration or strong wind, as frame instability will lead to inaccurate measurement results.
7. Read and follow all cautions and warning labels affixed to the calibration frame and other tools. Improper use may cause personal injury and shorten the life of the calibration frame.
8. Please follow the instructions in this manual to use the calibration frame and other tools.

2.2 Product Description

MaxiSys ADAS MA800 is supplied flat-packed, with three main components for shipment: base, stand, and crossbar. The package also includes standard accessories. For proper assembly, refer to the instructions in the quick reference guide.

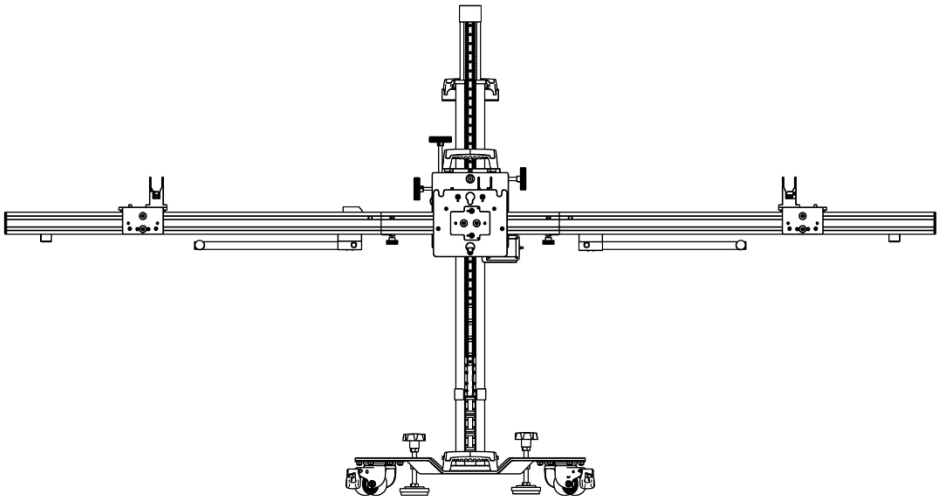
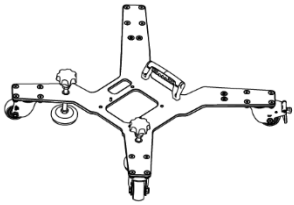


Figure 2-1 ***MaxiSys ADAS MA800 AUTEL-CSCE800***

Table 2-1 ***Calibration Frame Components***

Component Name	Illustration	Description
Base		Serves as a stable foundation, allowing the calibration frame to be easily moved as needed and securely locked in place using two foot brakes and adjustable feet.

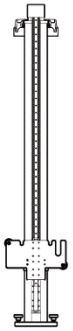
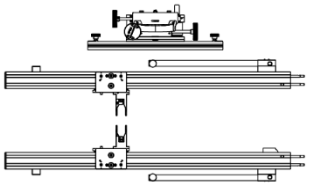
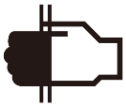
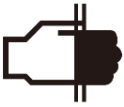
Component Name	Illustration	Description
Stand		Supports crossbar installation.
Crossbar		Consists of three sections: left arm, right arm, and arm connector.

Table 2-2 ***Explanations of Symbols on the Calibration Frame***

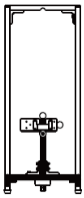
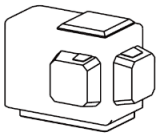
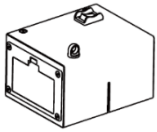
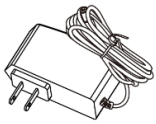
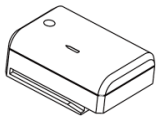
Symbol	Name	Explanation
	**Fragile**	Handle with care.
	**This Side Up**	Keep upright.
	**Maximum Stacking Load**	Max. load: 80 kg.

Symbol	Name	Explanation
	**Keep Dry**	Keep away from water.
	**Keep Away from Direct Sunlight**	Avoid direct sunlight.
	**Pinch Point**	Keep hands away from pinch points.
	**Pinch Point**	Keep hands away from pinch points.
	**Do Not Step On**	Do not step on the product.
	**Laser Radiation Warning**	Avoid direct exposure to the laser beam.
	**Laser Radiation Warning**	Avoid direct exposure to the laser beam.
	**Left Sliding Plate**	Indicates the left sliding plate.
	**Right Sliding Plate**	Indicates the right sliding plate.

3 Accessories

3.1 Standard Accessories

Table 3-1 ***Standard Accessories***

Alignment Stand AUTEL-CSC0807 1 PC		**Laser Plate** AUTEL-CSC050B/12 1 PC	
Laser Assisted Reflector AUTEL-CSC050B/13 1 PC		**Two-Line Laser For Centerline** AUTEL-CSC050B/14 1 PC	
Two-Line Laser AUTEL-CSC1500_10 1 PC		**Laser Measure Unit** AUTEL-CSC050A/26 1 PC	
Power Adapter 1 PC		**Rechargeable Battery Pack** 2 PCS	

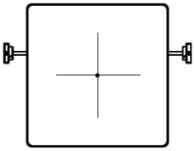
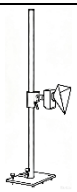
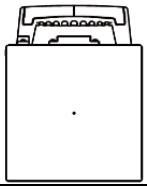
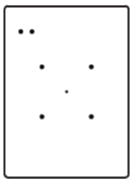
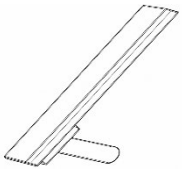
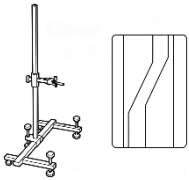
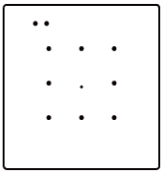
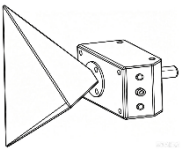
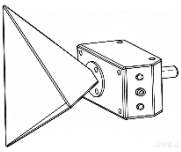
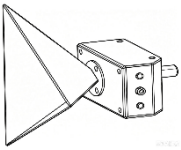
NOTE

The power adapter and rechargeable battery packs are for use with the two-line laser for centerline.

3.2 Optional Accessories (Not Included)

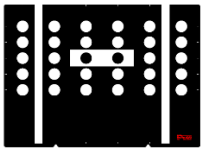
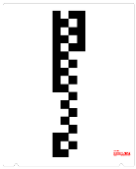
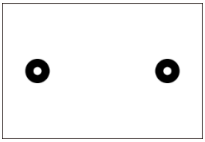
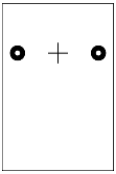
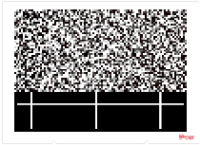
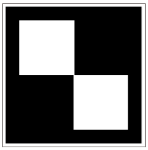
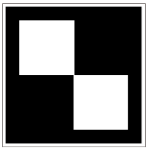
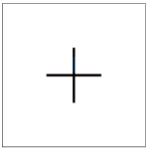
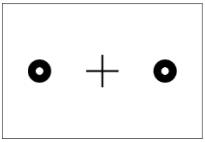
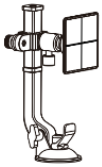
3.2.1 Calibration Tool for ACC System

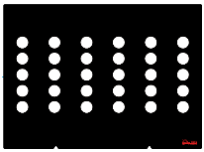
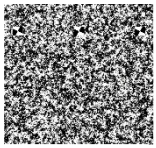
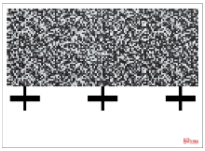
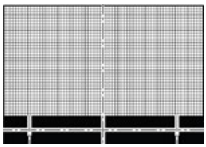
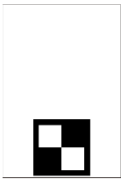
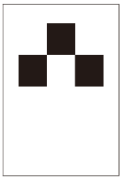
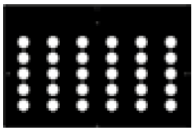
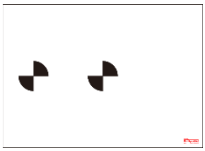
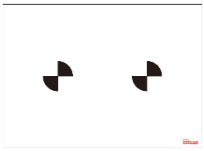
Table 3-2 ***Calibration Tools for ACC System***

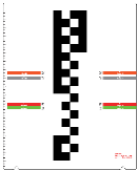
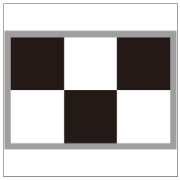
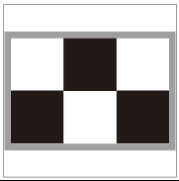
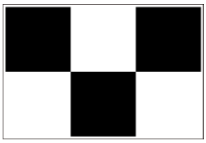
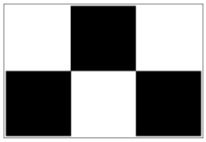
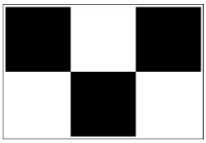
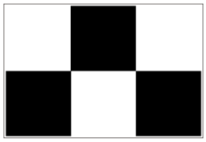
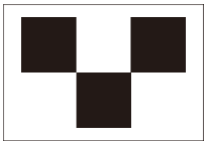
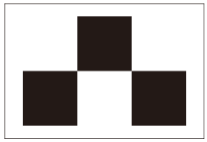
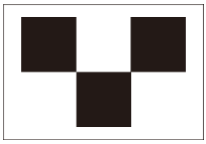
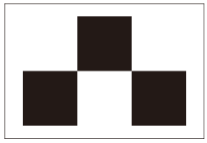
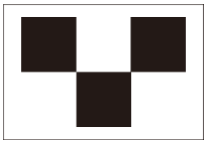
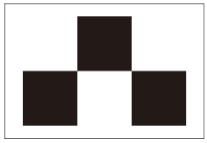
AUTEL- CSC0602/01		AUTEL- CSC0802/01 AUTEL-CSC0800	
AUTEL- CSC0602/08		AUTEL- CSC0602/02	
AUTEL- CSC0802/04		AUTEL- CSC0802/03	
AUTEL- CSC0602_09		AUTEL- CSC0602/04	
AUTEL- CSC0802/10		AUTEL- CSC0802/11	
AUTEL- CSC0802/12			

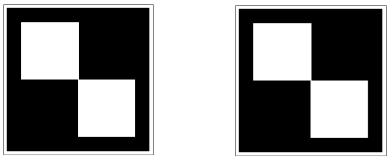
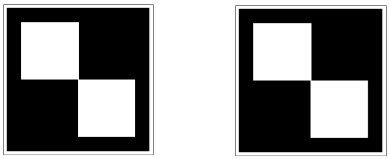
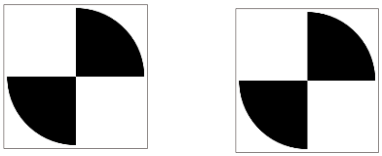
3.2.2 Calibration Tool for LDW System

Table 3-3 ***Calibration Tools for LDW System***

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AUTEL-CSC0601/19		AUTEL-CSC0601/14	
AUTEL-CSC0601/15		AUTEL-CSC0601/11	
AUTEL-CSC0601/09		AUTEL-CSC0601/02	
AUTEL-CSC0601/05		AUTEL-CSC0701/23	

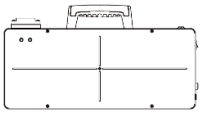
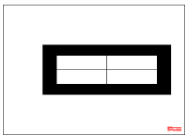
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AUTEL-CSC0601/25		AUTEL-CSC0601/24-01	
AUTEL-CSC0601/27		AUTEL-CSC0601/17	
AUTEL-CSC0601/28		AUTEL-CSC0601/11-01	
AUTEL-CSC0601/18		AUTEL-CSC0601/14_01	
AUTEL-CSC0611/06		AUTEL-CSC0611/01	
AUTEL-CSC0601/20		AUTEL-CSC0601/21	

AUTEL-CSC0611/05		AUTEL-CSC0611/07	
AUTEL-CSC0601/26-L AUTEL-CSC0601/26-R	 		
AUTEL-CSC0601/03-L AUTEL-CSC0601/03-R	 		
AUTEL-CSC0601/08-L AUTEL-CSC0601/08-R	 		
AUTEL-CSC0611_03-L AUTEL-CSC0611_03-R	 		
AUTEL-CSC0601/04-L AUTEL-CSC0601/04-R	 		
AUTEL-CSC0601/13-L AUTEL-CSC0601/13-R	 		

AUTEL-CSC0601/22-L AUTEL-CSC0601/22-R	
AUTEL-CSC0601/23-L AUTEL-CSC0601/23-R	
AUTEL-CSC0601/06-L AUTEL-CSC0601/06-R	

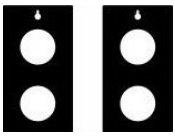
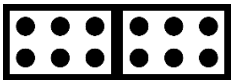
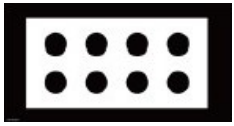
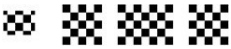
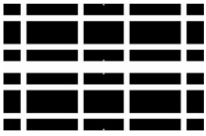
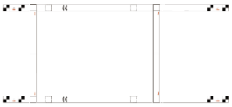
3.2.3 Calibration Tool for NV System

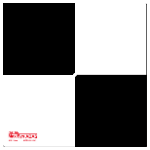
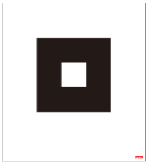
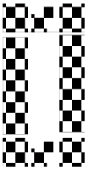
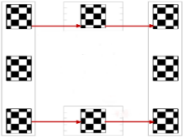
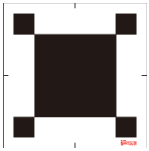
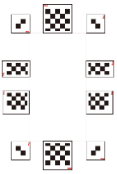
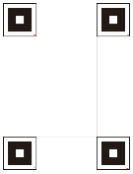
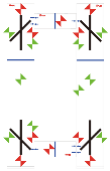
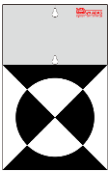
Table 3-4 *Calibration Tools for NV System*

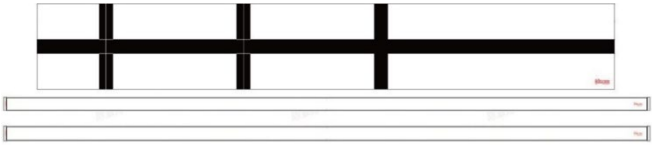
AUTEL-CSC0803/01		AUTEL-CSC0603/01	
AUTEL-CSC0603/03			

3.2.4 Calibration Tool for AVM System

Table 3-5 ***Calibration Tools for AVM System***

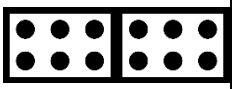
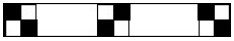
AUTEL-CSC0804/01		AUTEL-CSC0806/01	
AUTEL-CSC1004/02		AUTEL-CSC1004/03	
AUTEL-CSC1004/06		AUTEL-CSC1004/05	
AUTEL-CSC1004/07		AUTEL-CSC1004/01	
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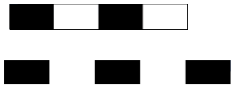
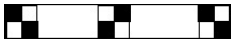
AUTEL-CSC1004/11		AUTEL-CSC1004_25	
AUTEL-CSC1004/12		AUTEL-CSC1004/13	
AUTEL-CSC1004/14		AUTEL-CSC1004/15	
AUTEL-CSC1004/16		AUTEL-CSC1004/17	
AUTEL-CSC1004/18		AUTEL-CSC1004/19	
AUTEL-CSC1004/20		AUTEL-CSC1004/21	
AUTEL-CSC0804/03			

AUTEL-CSC1004_10-(A/B/C/D1-D7)	
AUTEL-CSC1004_10-(D8-D12)	
AUTEL-CSC1004-10-(D13-D19)	
AUTEL-CSC1014-(17-18A-18B)	

3.2.5 Calibration Tool for RCW System

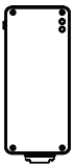
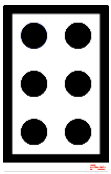
Table 3-6 ***Calibration Tools for RCW System***

AUTEL-CSC0806/01		AUTEL-CSC1006/01	
AUTEL-CSC1006/03		AUTEL-CSC1006/05	

AUTEL-CSC1006/02		AUTEL-CSC1006/04	

3.2.6 Calibration Tool for BSD System

Table 3-7 ***Calibration Tools for BSD System***

AUTEL-CSC0605/01		AUTEL-CSC0805/02	

3.2.7 Calibration Tool for HUD System

Table 3-8 ***Calibration Tool for HUD System***

AUTEL-CSC0707			

NOTE

For information about the calibration tools compatible with your vehicle, visit https://www.maxisysadas.com/getCoverage.jspx.

3.3 Technical Specifications

3.3.1 Two-line Laser

Table 3-9 ***Two-line Laser Specifications***

Item	Specification
Model	AUTEL-CSC1500_10
Voltage	6 V
Current	200 mA
Rate	1.2 W
Dimensions	108 × 81 × 61 mm
Operating Temperature	-10 to 50 °C (14 to 122 °F)
Storage Temperature	-20 to 60 °C (−4 to 140 °F)
Laser Class	Class II
Battery Type	AAA 4 × 1.5 V
Laser Wavelength	520 ± 10 nm

3.3.2 Two-line Laser for Centerline

Table 3-10 ***Two-line Laser for Centerline Specifications***

Item	Specification
Model	AUTEL-CSC050B/14
Laser Type	4×360°, 16 Lines (4D)
Laser Wavelength	505–520 nm
Accuracy	±0.2 mm/m
Automatic Leveling Range	±3°
Protection Level	IP54
Working Range	Approx. 20 m diameter

Item	Specification
Operating Time	Approx. 5 hours
Operating Temperature	-5 to 40 °C (23 to 104 °F)
Laser Class	Class II

3.3.3 Laser Measure Unit

Table 3-11 ***Laser Measure Unit Specifications***

Item	Specification
Model	AUTEL-CSC050A/26
Measuring Range	0.15–10 m
Laser Class	Class II
Laser Type	635 nm, < 1 mW

3.3.4 Mercedes Benz Night Vision Calibrator

Table 3-12 ***Mercedes Benz Night Vision Calibrator Specifications***

Item	Specification
Model	AUTEL-CSC0803/01
Voltage	12 V
Current	4 A
Rate	24 W
Size	400 × 47 × 240 mm
Operating Temperature	-2 to 50 °C (28.4 to 122 °F)

3.3.5 Volkswagen Night Vision Calibrator

Table 3-13 ***Volkswagen Night Vision Calibrator Specifications***

Item	Specification
Model	AUTEL-CSC0603/01
Voltage	12 V
Current	6 A
Rate	40 W
Size	440 × 54 × 240 mm
Operating Temperature	-10 to 50 °C (14 to 122 °F)

4 ADAS Settings

Before performing ADAS calibration, configure the required settings on the Autel MaxiSys tablet to ensure proper calibration. MaxiSys Ultra is used as an example in the illustrations.

4.1 MA800 ADAS Software Activation

To perform ADAS calibration using the MA800 calibration frame, activate the MA800 ADAS software on the tablet.

➢ **To activate the MA800 ADAS software**

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

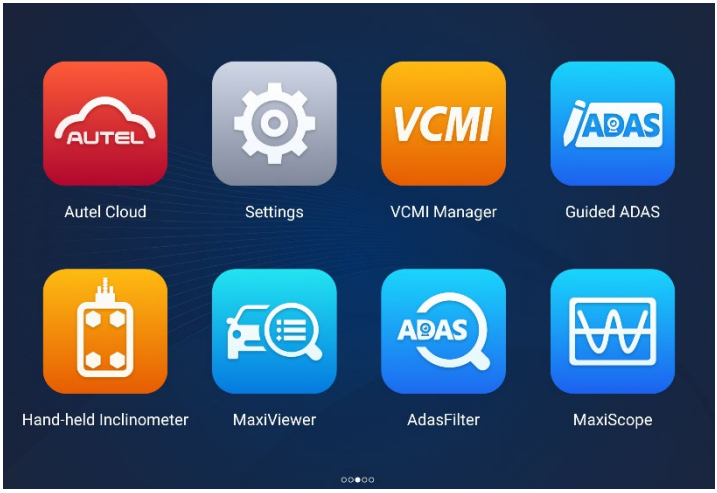


Figure 4-1 ***MaxiSys Job Menu Screen***

2. Tap **ADAS Settings** on the left column. After reading the prompts displayed on the right side of the screen, tap **Confirm** to proceed.

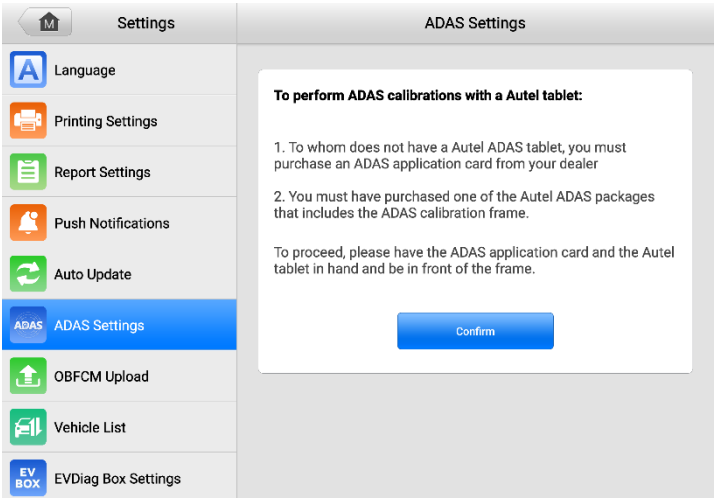


Figure 4-2 *ADAS Settings Screen 1*

3. Select **MA800 Solution** from the available frame types.

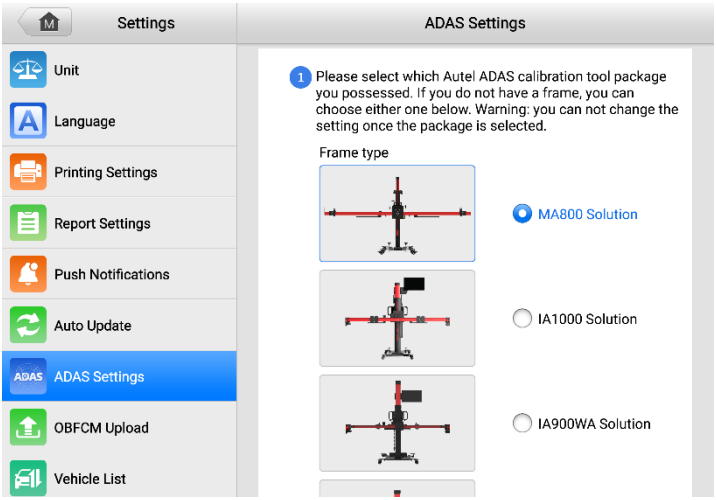


Figure 4-3 *ADAS Settings Screen 2*

4. Enter the card number from the activation card you purchased, then tap **Register** to complete the activation process.

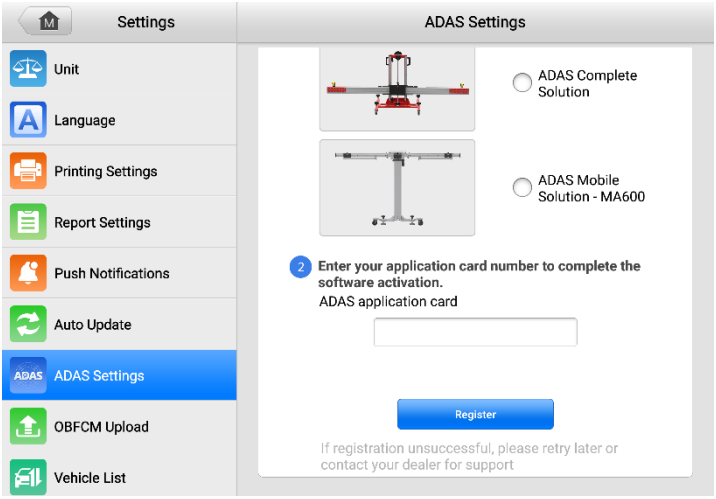


Figure 4-4 *ADAS Settings Screen 3*

5. The MA800 calibration frame is now bound to the MaxiSys tablet, and the MA800 ADAS software is successfully activated.

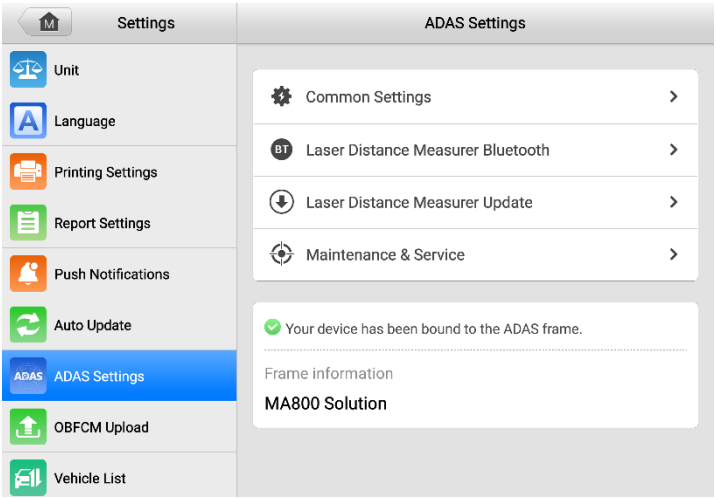


Figure 4-5 *ADAS Settings Screen 4*

4.2 Common Settings

Common settings include the following: Install Laser Distance Measurer on Left and Right Sliding Blocks, ADAS Measurement Tool Selection, and ADAS Calibration Parameter Settings.

4.2.1 Laser Distance Measurer Installation

If the left and right laser measure units (called Laser Distance Measurer in the tablet interface) are installed on the left and right sliding blocks, enable the **Install Laser Distance Measurer on Left and Right Sliding Blocks** option.

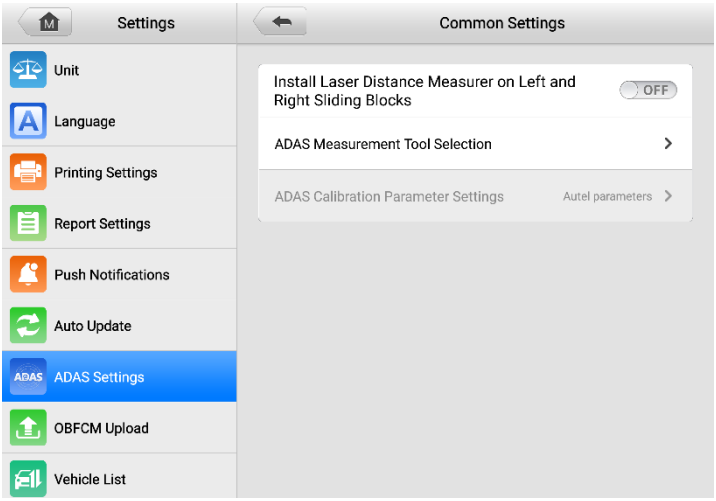


Figure 4-6 ***Common Settings Screen 1***

4.2.2 ADAS Measurement Tool Selection

This section provides three distance measurement options: Alignment stand + Tape measure, Alignment stand + Laser distance measurer, and Five-line laser + Plumb line. Select an option, and the tablet guides you through the ADAS calibration procedure using the corresponding measurement tools.

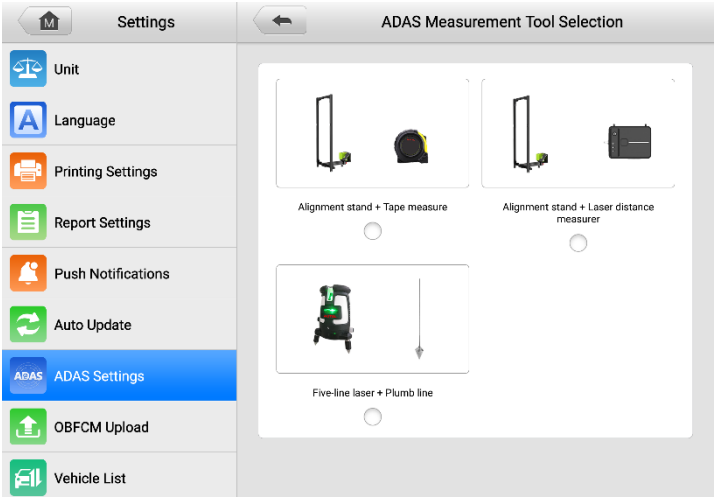


Figure 4-7 ***ADAS Measurement Tool Selection Screen***

If the **Install Laser Distance Measurer on Left and Right Sliding Blocks** option is enabled in *4.1.1 Laser Distance Measurer Installation*, the **ADAS Measurement Tool Selection** option is then automatically set to **Alignment stand + Laser distance measurer**, and the tablet guides you through the ADAS calibration procedure using the selected measurement tools.

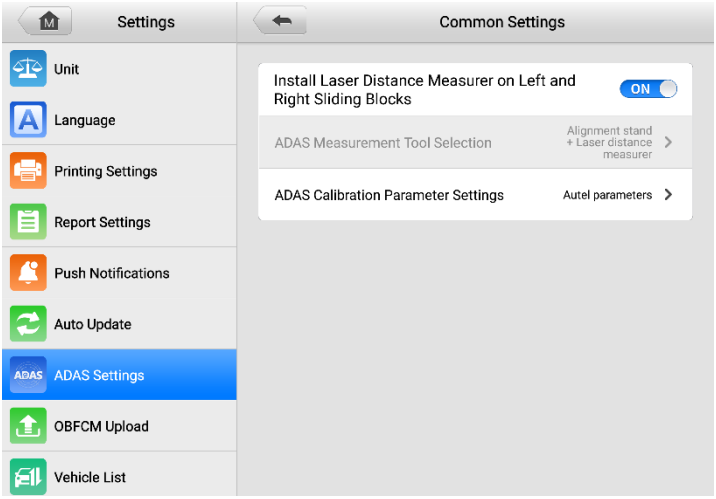


Figure 4-8 ***Common Settings Screen 2***

4.2.3 ADAS Calibration Parameter Settings

This section provides two options for adjusting the calibration frame when performing ADAS calibration: Autel parameters and Factory parameters. Select an option, and the tablet guides you through the procedure using the selected parameters.

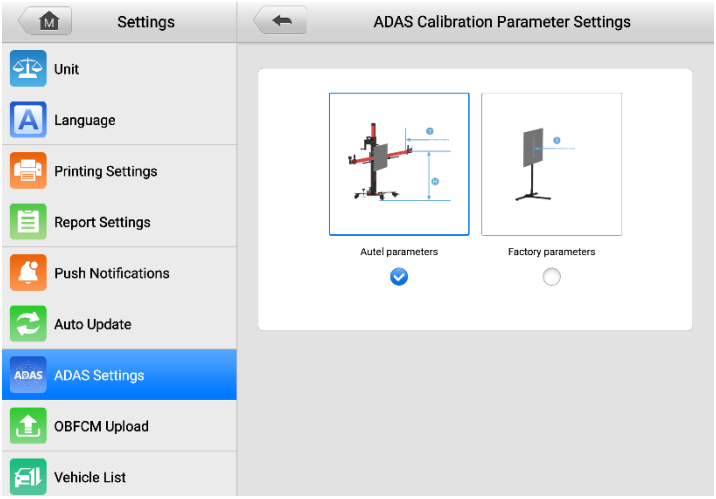


Figure 4-9 *ADAS Calibration Parameter Settings Screen*

4.3 Laser Distance Measurer Bluetooth

This section enables you to connect the laser measure units to the tablet via Bluetooth.

➢ **To connect the laser measure unit to the tablet via Bluetooth**

1. On the ADAS Settings screen, select **Laser Distance Measurer Bluetooth** to proceed.

2. Tap the **Bluetooth** toggle to enable Bluetooth for pairing. The tablet will search for available laser measure units. The Bluetooth name of the device is “Maxi”, followed by a serial number. Tap the desired device to connect. When the connection is established, the status displays “Connected”.

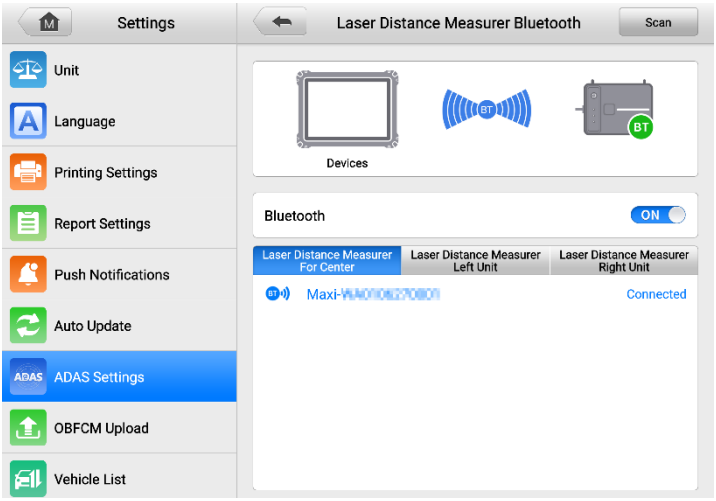


Figure 4-10 ***Laser Distance Measurer Bluetooth Screen***

NOTE

The **Laser Distance Measurer Left Unit** and **Laser Distance Measurer Right Unit** tabs are displayed only when the **Install Laser Distance Measurer on Left and Right Sliding Blocks** option is enabled in *4.1.1 Laser Distance Measurer Installation*.

4.4 Laser Distance Measurer Update

This setting enables you to update the laser measure units.

➢ **To update the laser measure unit**

1. On the ADAS Settings screen, select **Laser Distance Measurer Update** to proceed.
2. Tap **Update Now** to update the device.

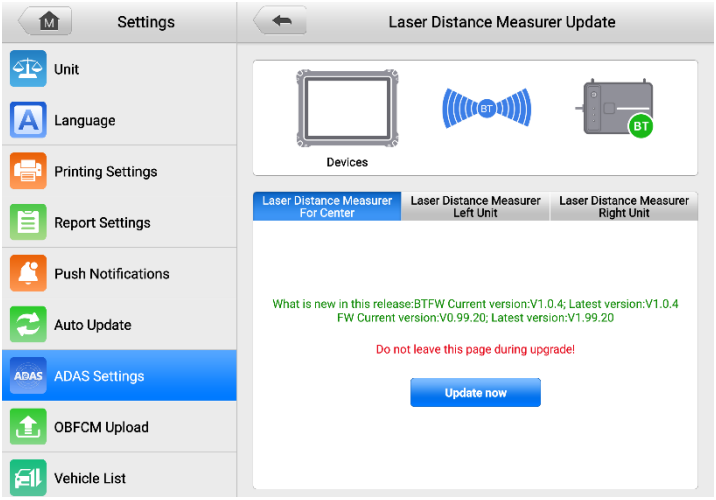


Figure 4-11 ***Laser Distance Measurer Update Screen***

NOTE

The **Laser Distance Measurer Left Unit** and **Laser Distance Measurer Right Unit** tabs are displayed only when the **Install Laser Distance Measurer on Left and Right Sliding Blocks** option is enabled in *4.1.1 Laser Distance Measurer Installation*.

4.5 Maintenance & Service

This section enables you to perform the calibration of the left and right laser measure units.

NOTE

The following procedure uses the left laser measure unit calibration as an example. The same procedure applies to the right laser measure unit.

➢ **To calibrate the left laser measure unit**

1. On the ADAS Settings screen, select **Maintenance & Service** to proceed.
2. Tap **Laser Distance Measurer Left Unit Calibration** to start calibration.

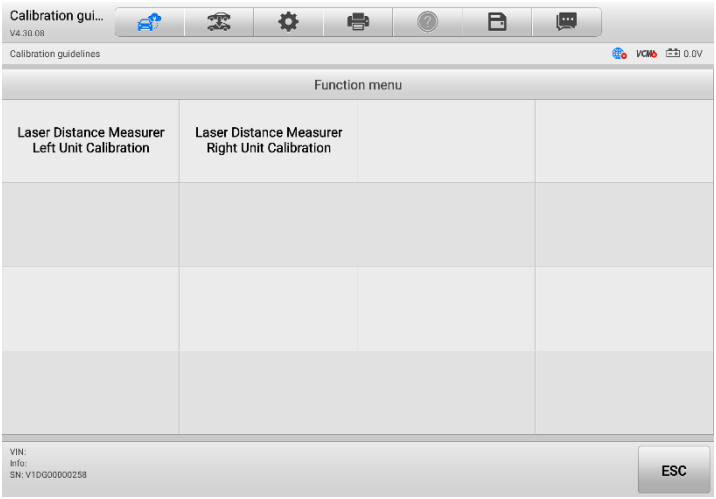


Figure 4-12 ***Calibration Function Screen***

3. Follow the on-screen instructions to move the left sliding block to the specified position. Then tap **OK** to proceed.

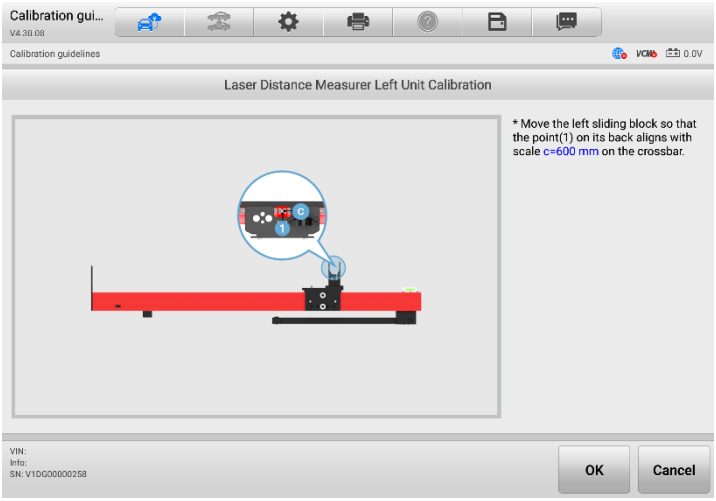


Figure 4-13 ***Laser Distance Measurer Left Unit Calibration Screen 1***

4. Tap **Connect laser distance measurer left unit** for Bluetooth pairing. For details, refer to *4.2 Laser Distance Measurer Bluetooth*.

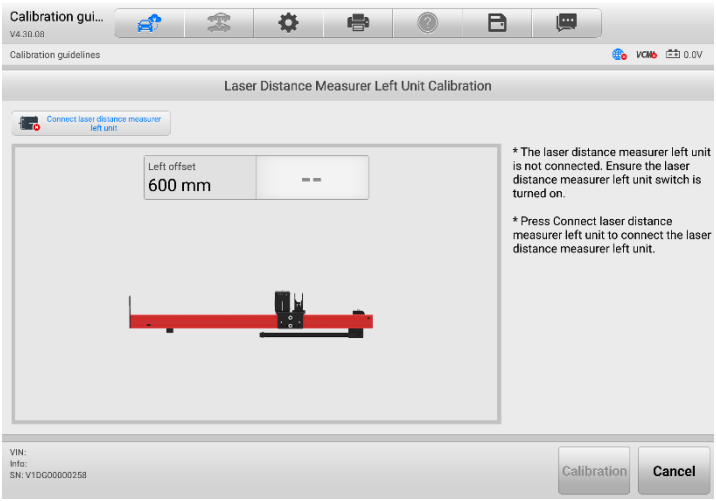


Figure 4-14 ***Laser Distance Measurer Left Unit Calibration Screen 2***

5. After the left laser measure unit is connected to the tablet, follow the on-screen instructions to perform calibration. Then the tablet will display a notification indicating successful calibration.

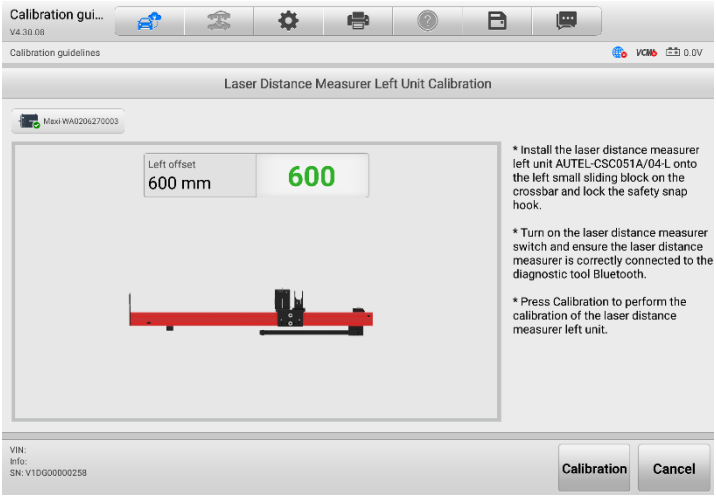


Figure 4-15 ***Laser Distance Measurer Left Unit Calibration Screen 3***

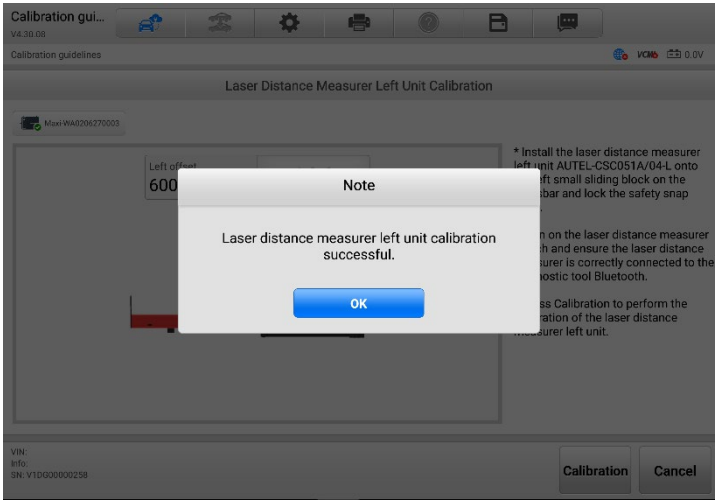


Figure 4-16 ***Laser Distance Measurer Left Unit Calibration Screen 4***

5 ADAS Calibration Function

The MaxiSys ADAS MA800 calibration frame works with the MaxiSys diagnostic tablet to perform ADAS calibration for various vehicle systems. This chapter describes the calibration procedures for the Night Vision System (NVS) and On-Board Camera, including applicable calibration situations, required calibration tools, calibration preparations, and step-by-step procedures.

As calibration procedures may vary by vehicle make, model, and year, follow the step-by-step instructions displayed on the tablet to complete the calibration. Position the required calibration tools as instructed before starting the calibration procedure.

NOTE

The 2011 Audi A7 is used as an example in this chapter. As the calibration procedures may vary by vehicle, follow the instructions displayed on the tablet.

5.1 On-Board Camera

The on-board camera is used by the Lane Departure Warning (LDW) system. Proper calibration ensures that the camera is correctly aligned with the vehicle for lane detection.

5.1.1 Select Calibration Situations

- Repaired or replaced the front video camera
- Repaired or replaced the front windshield
- Adjusted the chassis
- Adjusted the vehicle body height
- Relearned the vehicle height through vehicle height sensor

5.1.2 Select the Vehicle Parking Spot

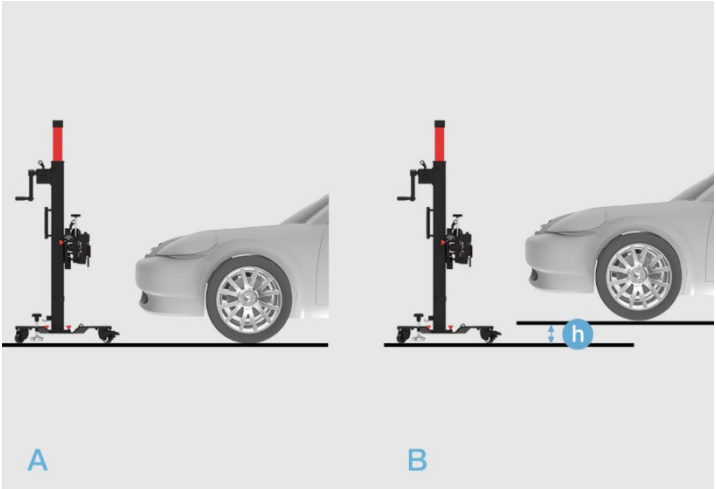


Figure 5-1 ***Select the Vehicle Parking Spot***

A: level ground

B: a spot (e.g., workshop station) where the calibration frame and vehicle are not at the same level. Measure the height gap **h** between the two levels, and enter the measured value (unit: mm).

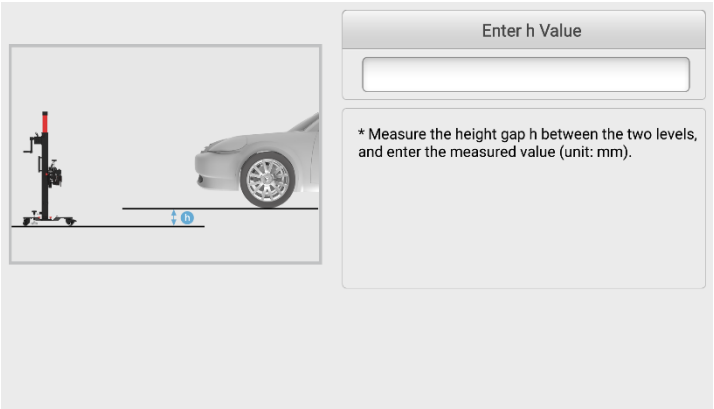


Figure 5-2 ***Measure the Height Difference h***

5.1.3 Prepare the Calibration Site

Make sure there is at least a space of A = 2500 mm +/- 25 mm (98.43 in +/- 0.98 in) × B = 3000 mm (118.11 in) in front of the front wheel center (toward the front of the vehicle).

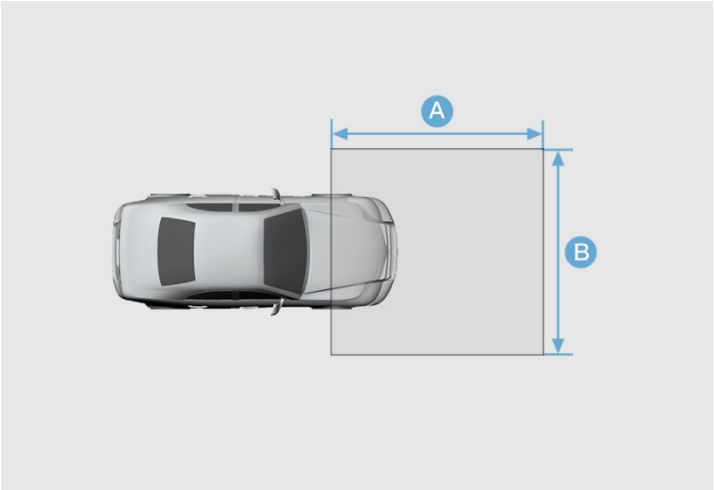


Figure 5-3 ***Prepare the Calibration Site***

5.1.4 Prepare Calibration Tools

Required Calibration Tools:

- ✓ Calibration frame AUTEL-CSCE800
- ✓ Target board AUTEL-CSC0601/01
- ✓ Two-line laser AUTEL-CSC1500/10
- ✓ Alignment stand AUTEL-CSC0807
- ✓ Laser plate AUTEL-CSC050B/12
- ✓ Laser assisted reflector AUTEL-CSC050B/13
- ✓ Two-line laser for centerline AUTEL-CSC050B/14
- ✓ Laser distance measurer for center AUTEL-CSC050A/26
- ✓ Tape measure (not included)

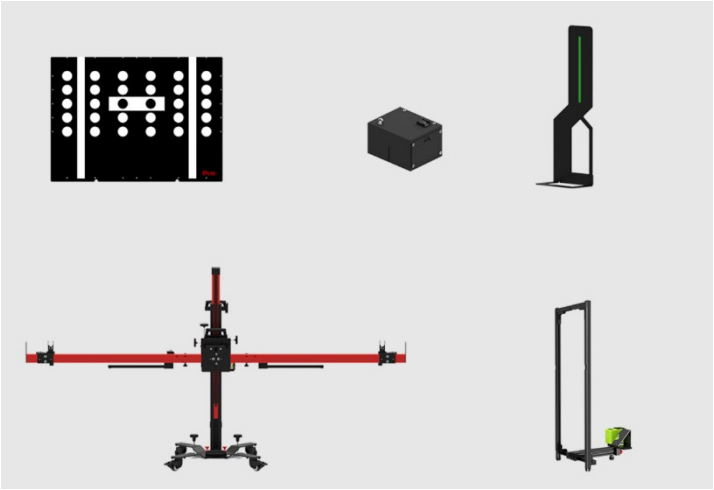


Figure 5-4 ***Prepare Calibration Tools***

5.1.5 Prepare the Vehicle

- Park the vehicle on the level ground, center the steering wheel, and ensure the front wheels are in the straight-ahead position (perform a wheel alignment first if necessary).
- Once the vehicle is completely stationary, turn off the ignition switch to ensure the rear axle steering is in the straight-ahead position.
- Keep the vehicle unloaded, ensure the coolant and engine oil levels are correct, and fill the fuel tank.
- Connect the Vehicle Communication Interface (VCI) to the vehicle, and then connect the diagnostic tool to the Vehicle Communication Interface (VCI). If a diagnostic cable is used to connect the diagnostic tool and the Vehicle Communication Interface (VCI), pass the diagnostic cable through the window.
- Close all doors and exterior lighting.
- Adjust the tire pressure to the specified value.
- Connect a battery charger to prevent deep discharge of the battery.
- For vehicles equipped with air suspension, activate the jack mode.
- Ensure the windshield and cameras are clean and unobstructed.

- The calibration area must be well lit.
- Thoroughly clean the dashboard.

NOTE

- Ensure there are no light reflections on the windshield (use a black cloth to cover reflective objects).
- If the vehicle is equipped with air suspension or has been raised/lowered from its original ride height, restore the vehicle to its factory ride height before continuing the calibration.
- The calibration frame must be placed as requested before this calibration function can be performed.
- Press **Set up** to view placement steps. After the calibration frame is placed properly, press **OK** to start the calibration.
- Refer to Autel Calibration Tools User Manual to complete auxiliary tool placement.

5.1.6 Position the Auxiliary Tools

- **To align the alignment stand with the vehicle centerline**

1. Unfold the alignment stand and install the laser assisted reflector and the two-line laser for centerline. Turn on the two-line laser for centerline. Press the **V** button twice and move the two-line laser for centerline left and right so that its laser line aligns with the white groove.

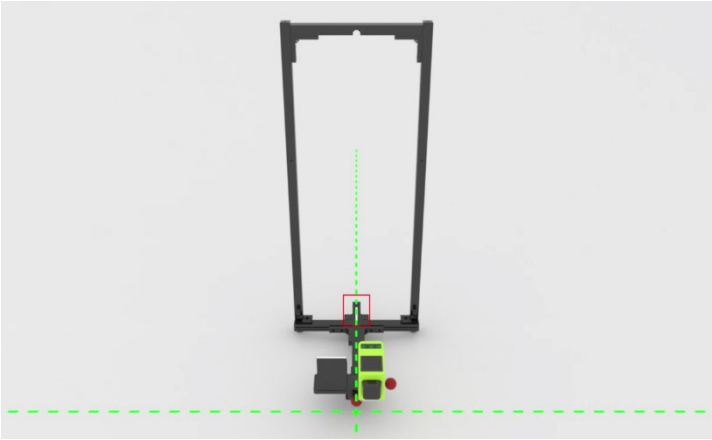


Figure 5-5 ***Align the Two-line Laser for Centerline***

2. Place the alignment stand at the rear of the vehicle so that it fits against the bumper and aligns with the vehicle center. Ensure the laser line of the two-line laser for centerline aligns with the white groove. Then place the laser plate at the rear of the vehicle so that its center aligns with the laser line of the two-line laser for centerline.

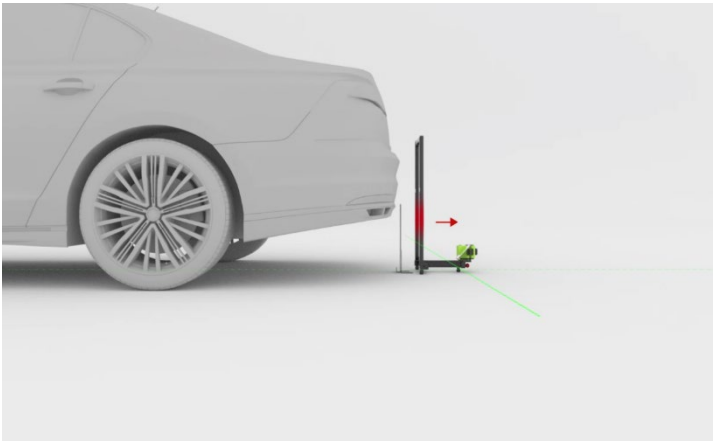


Figure 5-6 ***Align the Laser Plate with the Vehicle Center***

3. Place the alignment stand in front of the vehicle so that it fits against the bumper and aligns with the vehicle center. Hold the two red balls, keep one red ball fixed, and pull the side red ball to move the alignment stand left and right. Use the laser assisted reflector to observe and align the laser line of the two-line laser for centerline with the center of the laser plate at the rear of the vehicle.

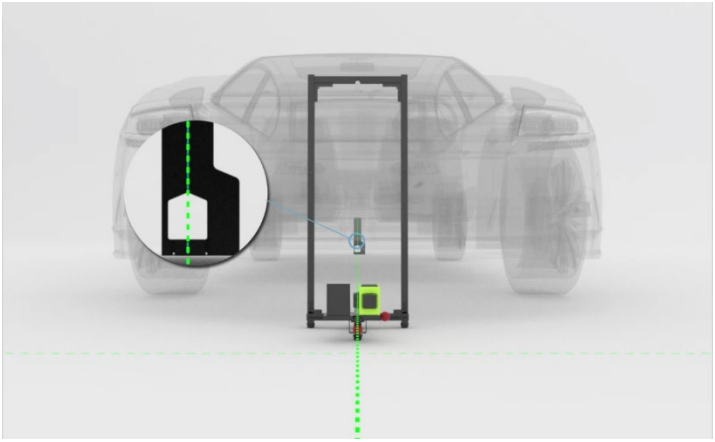


Figure 5-7 ***Align the Alignment Stand with the Vehicle Centerline***

4. Long press the laser distance measurer for center switch to turn on the laser distance measurer for center.

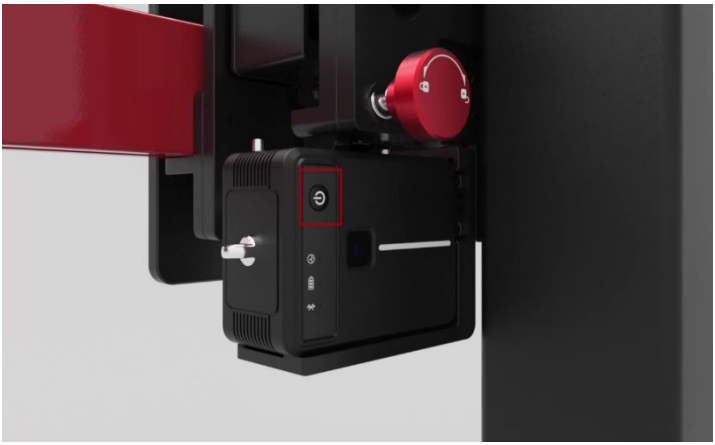


Figure 5-8 ***Turn on the Laser Distance Measurer for Center***

➢ **To position the laser plate and laser distance measurer for center**

NOTE

Before positioning the laser distance measurer for center, tap the blue **Connect laser distance measurer for center** button to connect the device to the tablet.

Place the laser plate so that it is aligned with the center of the right front wheel. Place the laser distance measurer for center so that its line aligns with the laser line and the laser beam of the laser distance measurer for center hits the laser plate.

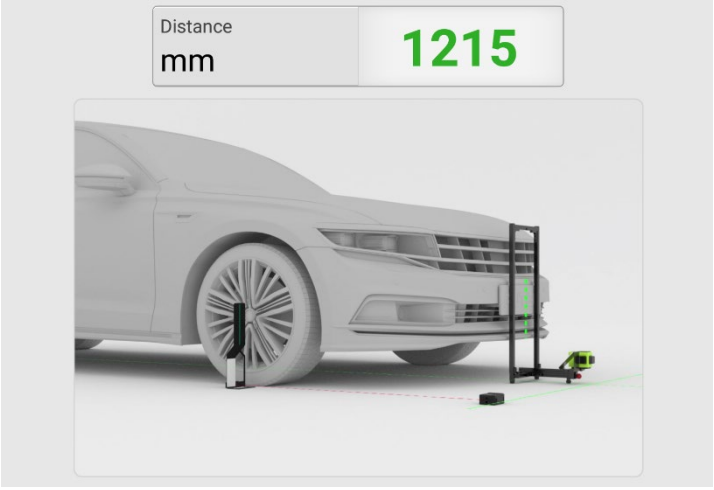


Figure 5-9 ***Position the Laser Plate and Laser Distance Measurer for Center***

➢ **To assemble and adjust the calibration frame**

1. Assemble the calibration frame crossbar.

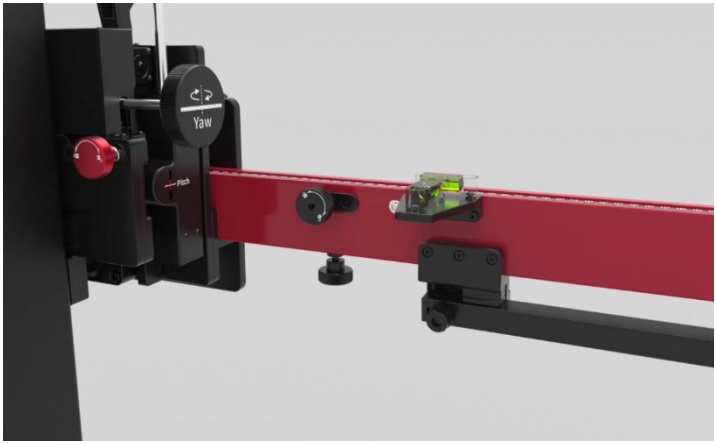


Figure 5-10 ***Assemble the Calibration Frame Crossbar***

2. Move the sliding blocks on both sides to both ends, then move the sliding plate to align the lines.



Figure 5-11 ***Adjust the Position of the Sliding Blocks***

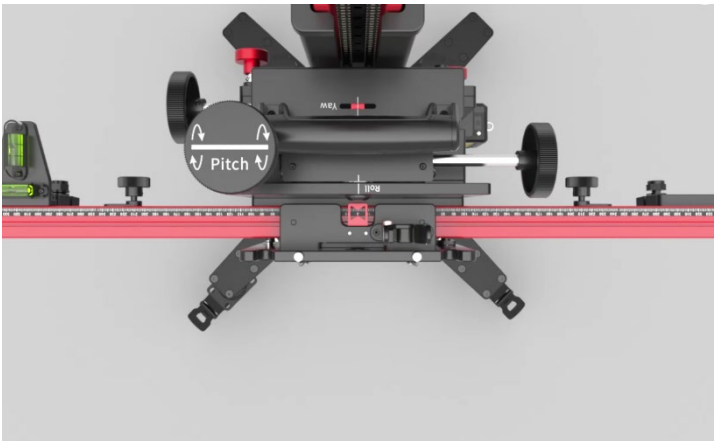


Figure 5-12 ***Adjust the Position of the Sliding Plate***

3. Rotate the fine-adjustment bolt for pitch angle to align the lines.

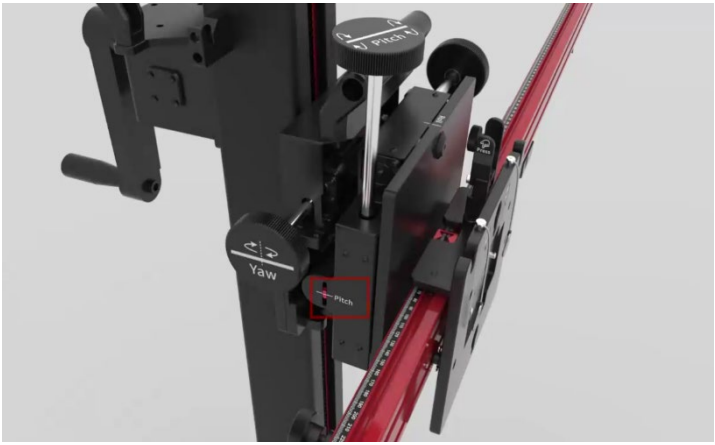


Figure 5-13 ***Adjust the Pitch Angle***

4. Rotate the fine-adjustment bolt for roll angle to align the lines.

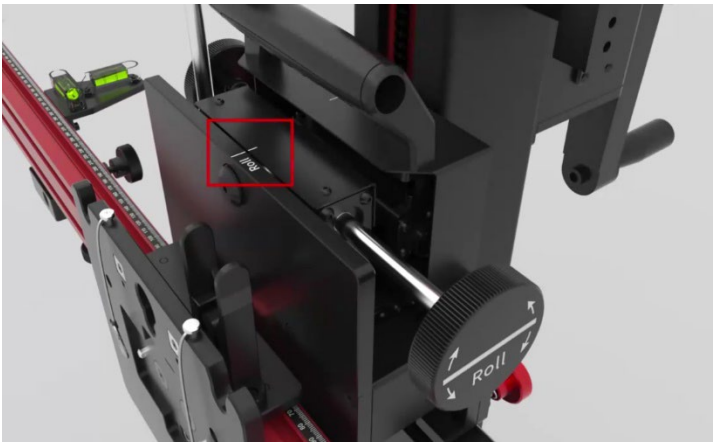


Figure 5-14 ***Adjust the Roll Angle***

5. Rotate the fine-adjustment bolt for yaw angle to align the lines.

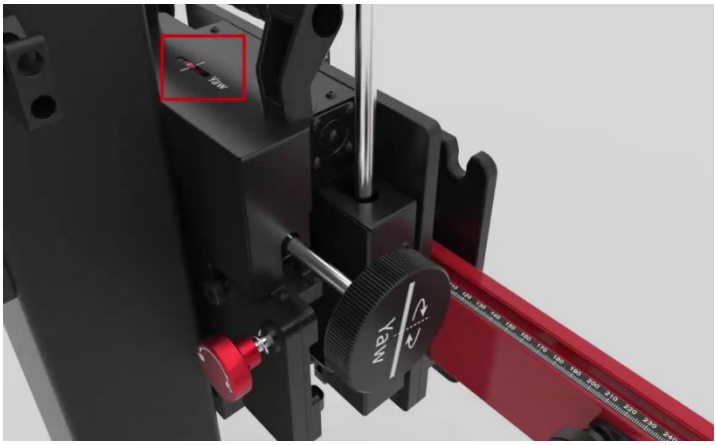


Figure 5-15 ***Adjust the Yaw Angle***

6. Move the calibration frame to the front of the vehicle. Install the two-line laser and the laser distance measurer for center on the large sliding plate. Ensure the two-line laser and the laser distance measurer for center are turned on and lock the safety snap hook.



Figure 5-16 ***Install the Two-line Laser***

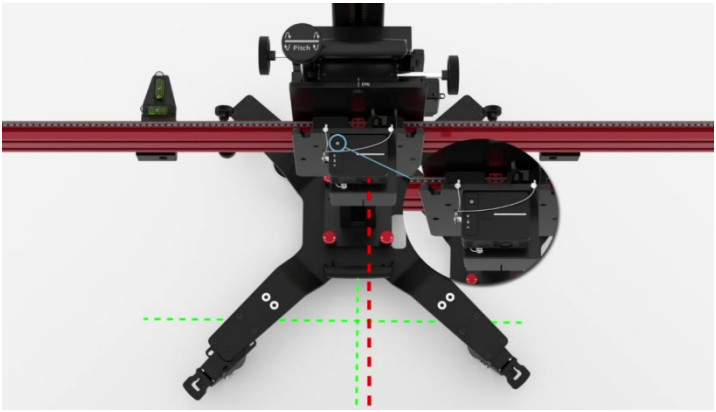


Figure 5-17 ***Install the Laser Distance Measurer for Center***

7. Rotate the bolt (Pitch) and bolt (Roll) to center the bubbles in the bubble levels on the crossbar.



Figure 5-18 ***Center the Bubbles in the Bubble Levels on the Crossbar***

➢ **To position and align the calibration frame**

NOTE

Before positioning and aligning the calibration frame, tap the blue **Connect laser distance measurer for center** button to connect the device to the tablet.

1. Adjust the crossbar height so that the laser point of the laser distance measurer for center is level with the center of the bumper.

2. Ensure the intersection point of the laser lines from the two-line laser on the calibration frame is located on the laser line of the two-line laser for centerline, and the laser line of the two-line laser coincides with the laser line of the two-line laser for centerline as much as possible. Move the calibration frame along the laser line of the two-line laser for centerline so that **Distance** is displayed in green.

3. Tighten the leveling feet and depress the brakes to secure the calibration frame. Rotate the fine adjustment bolt (Yaw) so that the laser line of the two-line laser coincides with the laser line of the two-line laser for centerline.

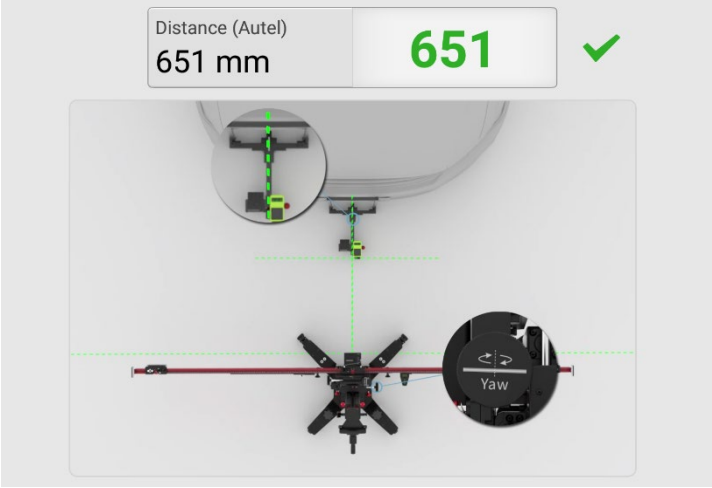


Figure 5-19 ***Position and Align the Calibration Frame***

NOTE

After properly positioning the calibration frame, perform the following steps:

- Turn off and remove the two-line laser on the calibration frame.
- Turn off the two-line laser for centerline on the alignment stand. Remove the alignment stand and the laser plate.
- Press **ESC** to return to the calibration preparation interface, then press **OK** to start the calibration.

5.1.7 Position the Calibration Tools

➢ **To return the laser distance measurer for center to the mounting bracket**

Ensure the laser distance measurer for center is installed on the mounting bracket (1) and that the laser distance measurer for center is turned on.

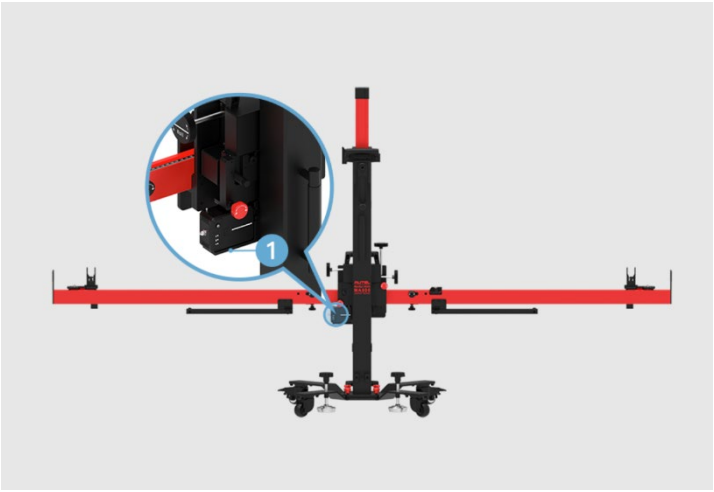


Figure 5-20 ***Return the Laser Distance Measurer for Center***

➢ **To install the target board**

1. Adjust the crossbar height to approximately 1 m. Unfold the pattern brackets (1) on both sides of the crossbar.

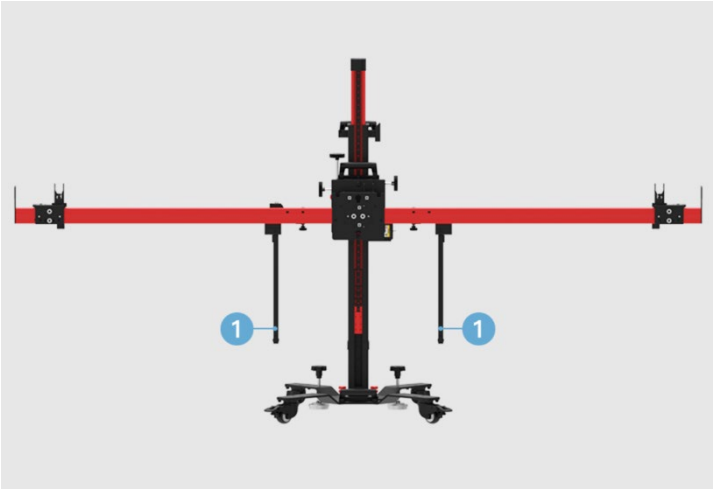


Figure 5-21 ***Unfold the Pattern Bracket***

2. Attach the target board AUTEL-CSC0601/01 to the calibration frame and fix the target board with the two sliding plates (1) on both sides of the crossbar.

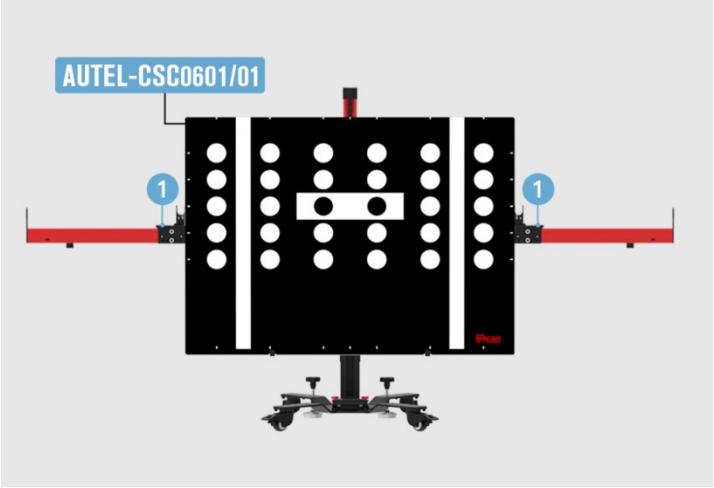


Figure 5-22 ***Install the Target Board***

3. Rotate bolt 1 (Pitch) and bolt 2 (Roll) to center the bubbles in the bubble levels (3).

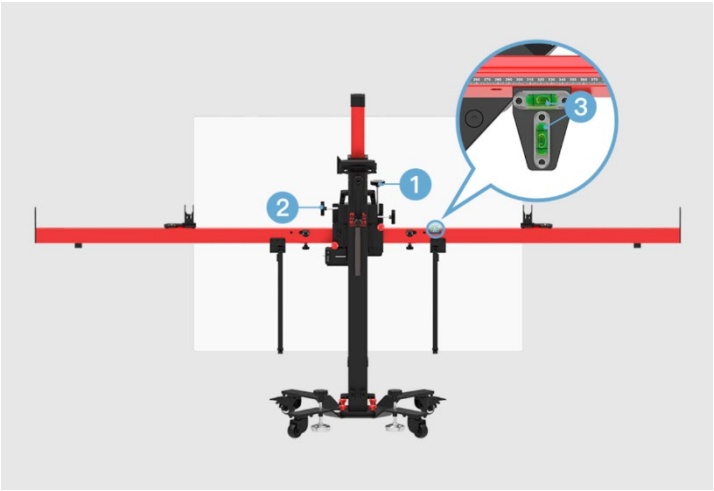


Figure 5-23 ***Center the Bubbles in the Bubble Levels on the Crossbar***

➢ **To adjust the crossbar height**

Rotate the crank to adjust the crossbar height so that **Height** is displayed in green.

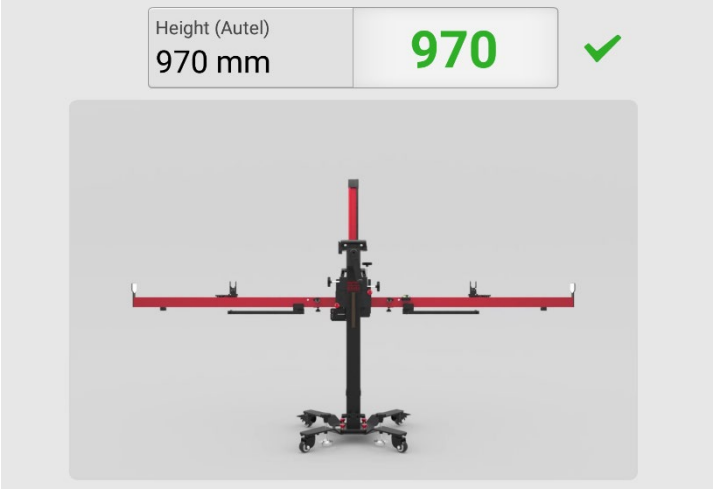


Figure 5-24 ***Adjust the Crossbar Height***

➢ **To calibrate the front camera**

1. Enter the wheel housing rim heights for the left front, right front, left rear, and right rear wheels. Tap **OK**. If the entered values are correct, tap **Yes** to proceed.

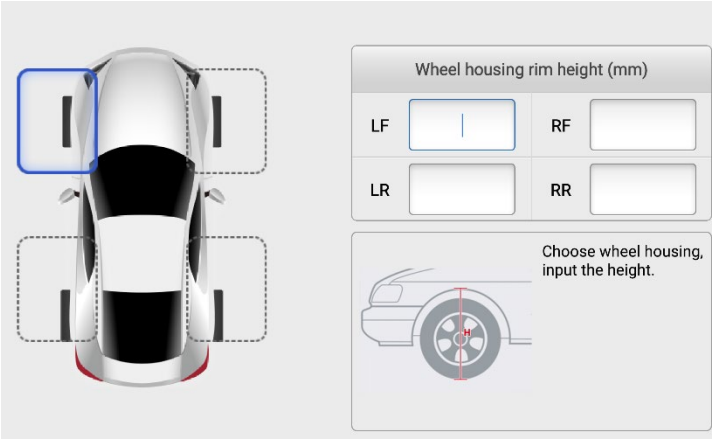


Figure 5-25 ***Input the Wheel Housing Rim Heights***

2. Wait until the screen displays “Calibration successful, no malfunction”; then tap **OK** to complete the calibration.

5.2 Night Vision System

The night vision system requires calibration to ensure that its camera is correctly aligned with the vehicle and provides accurate detection of objects ahead.

5.2.1 Select Calibration Situations

- Repaired or replaced the Night Vision System (NVS) camera
- Repaired or replaced the bumper or radiator grill
- Adjusted the chassis
- Changed the vehicle body height
- Changed the position of NVS camera on the vehicle body

5.2.2 Prepare the Calibration Site

Make sure there is at least a space of A = 2200 mm (86.61 in) × B = 3000 mm (118.11 in) in front of the vehicle.

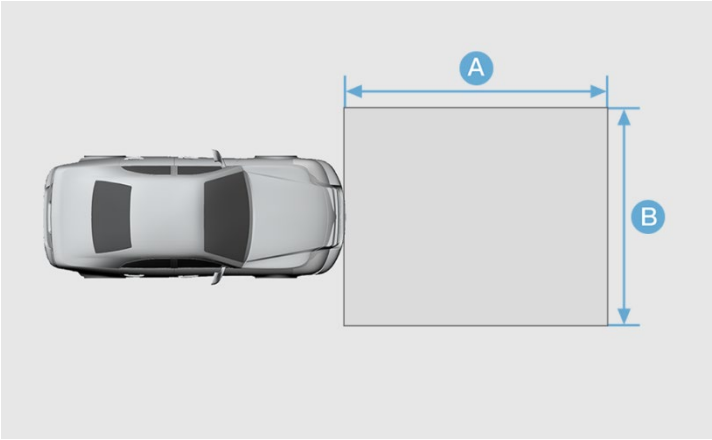


Figure 5-26 ***Prepare the Calibration Site***

5.2.3 Prepare Calibration Tools

Required Calibration Tools:

- ✓ Calibration frame AUTEL-CSCE800
- ✓ NV calibrator AUTEL-CSC0603/01
- ✓ Two-line laser AUTEL-CSC1500/10
- ✓ Alignment stand AUTEL-CSC0807
- ✓ Laser plate AUTEL-CSC050B/12
- ✓ Laser assisted reflector AUTEL-CSC050B/13
- ✓ Two-line laser for centerline AUTEL-CSC050B/14
- ✓ Laser distance measurer for center AUTEL-CSC050A/26
- ✓ 12 V power adapter

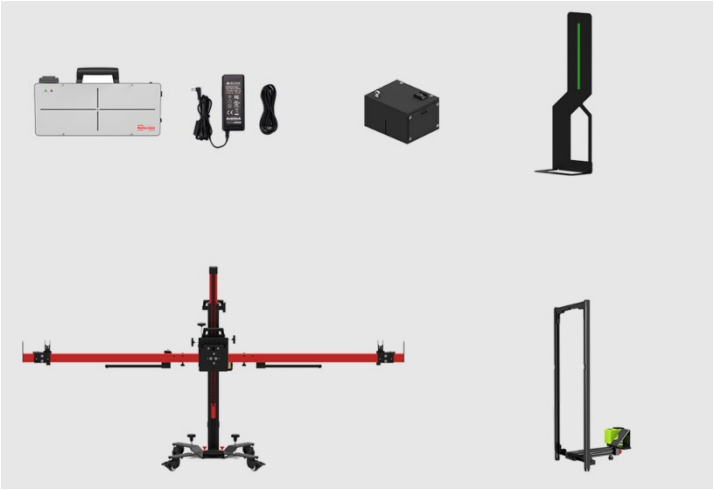


Figure 5-27 ***Prepare Calibration Tools***

NOTE

Laser distance measurer for center (AUTEL-CSC050A/26) displayed on the tablet refers to the Laser Measure Unit (AUTEL-CSC050A/26) listed in *Table 3-1 Standard Accessories*.

5.2.4 Prepare the Vehicle

- Center the steering wheel, and keep the front wheels of the vehicle in a straight-ahead position (If necessary, perform the wheel alignment first).
- Ensure the vehicle's coolant and engine oil are at recommended levels and the gas tank is full. The vehicle should not be carrying any additional load (such as passengers or cargo).
- Attach the VCI to the vehicle and connect the diagnostic tool to the VCI (if the diagnostic tool and VCI are connected through diagnostic cable, guide the cable through window).
- Apply the parking brake, close all doors and turn off all external lighting.
- Adjust the tire pressure to the recommended value.
- Keep the vehicle in a cold state.
- If needed, connect the vehicle to a battery maintainer to prevent battery discharge.

- Visually check if the night vision system camera is within the bracket and if the camera field of view is obstructed. Typically, the night vision system camera is located near the vehicle front grill or vehicle emblem.

- Check the protective window of the night vision system camera for any damage. If damaged, the night vision system camera must be replaced.

NOTE

- The camera position should be subject to the actual situation.
- The calibration frame must be placed as requested before this calibration function can be performed.
- Press **Set up** to view placement steps. After the calibration frame is placed properly, press **OK** to start the calibration.
- Refer to Autel Calibration Tools User Manual to complete auxiliary tool placement.

5.2.5 Position the Auxiliary Tools

- **To align the alignment stand with the vehicle centerline**

1. Unfold the alignment stand and install the laser assisted reflector and the two-line laser for centerline. Turn on the two-line laser for centerline. Press the **V** button twice and move the two-line laser for centerline left and right so that its laser line aligns with the white groove.

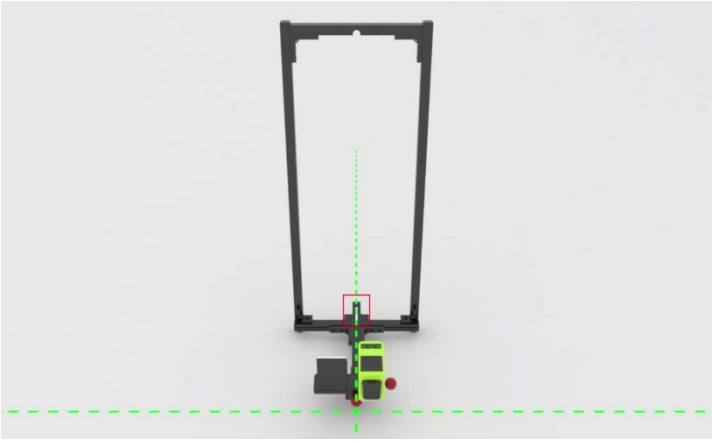


Figure 5-28 ***Align the Two-line Laser for Centerline***

2. Place the alignment stand at the rear of the vehicle so that it fits against the bumper and aligns with the vehicle center. Ensure the laser line of the two-line

laser for centerline aligns with the white groove. Then place the laser plate at the rear of the vehicle so that its center aligns with the laser line of the two-line laser for centerline.

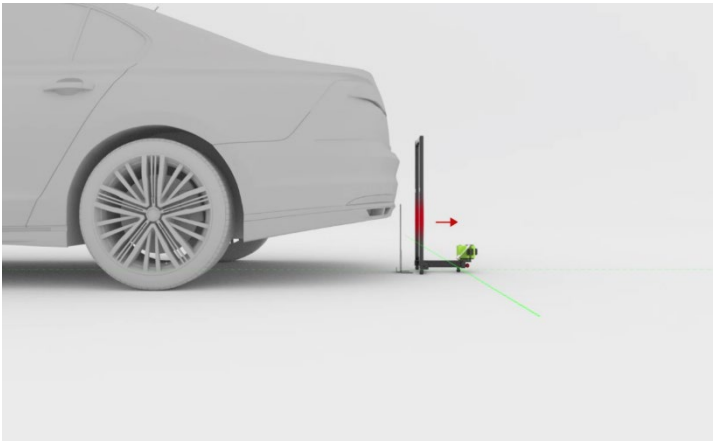


Figure 5-29 ***Align the Laser Plate with the Vehicle Center***

3. Place the alignment stand in front of the vehicle so that it fits against the bumper and aligns with the vehicle center. Hold the two red balls, keep one red ball fixed, and pull the side red ball to move the alignment stand left and right. Use the laser assisted reflector to observe and align the laser line of the two-line laser for centerline with the center of the laser plate at the rear of the vehicle.

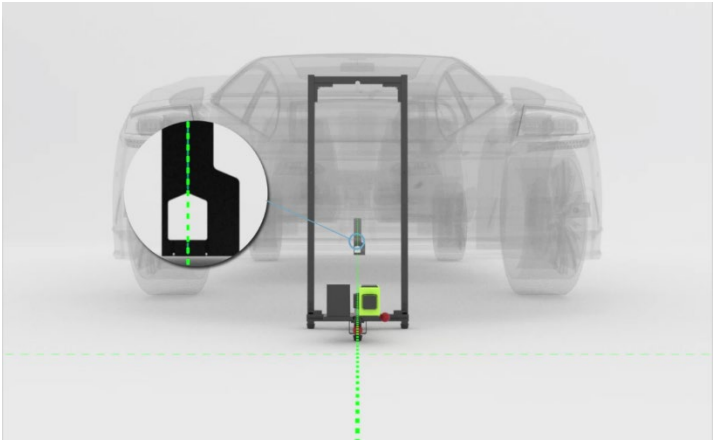


Figure 5-30 ***Align the Alignment Stand with the Vehicle Centerline***

4. Long press the laser distance measurer for center switch to turn on the laser distance measurer for center.

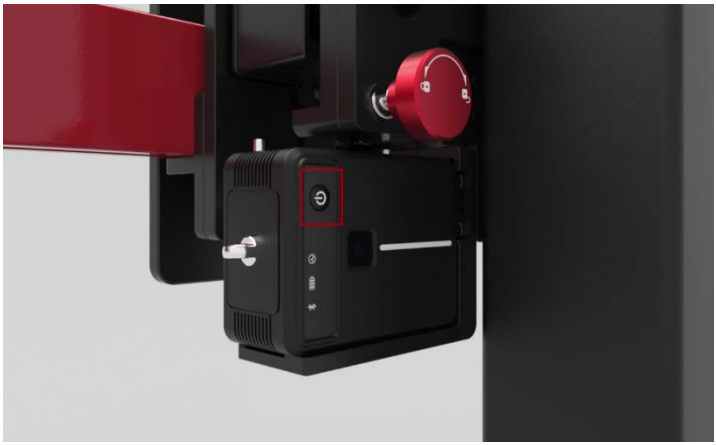


Figure 5-31 ***Turn on the Laser Distance Measurer for Center***

➢ **To assemble and adjust the calibration frame**

1. Assemble the calibration frame crossbar.

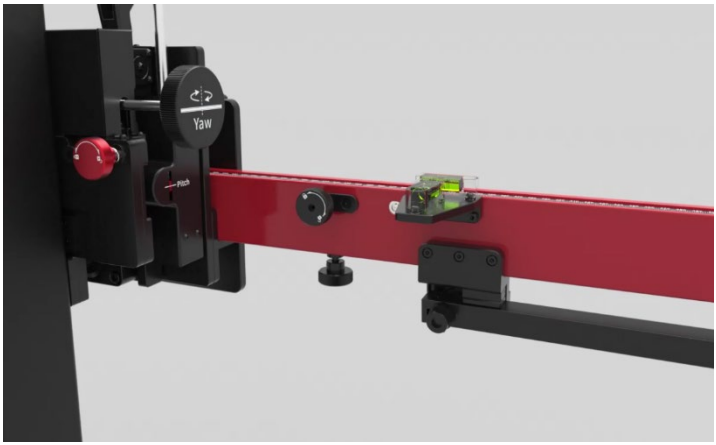


Figure 5-32 ***Assemble the Calibration Frame Crossbar***

2. Move the sliding blocks on both sides to both ends, then move the sliding plate to align the lines.



Figure 5-33 ***Adjust the Position of the Sliding Blocks***

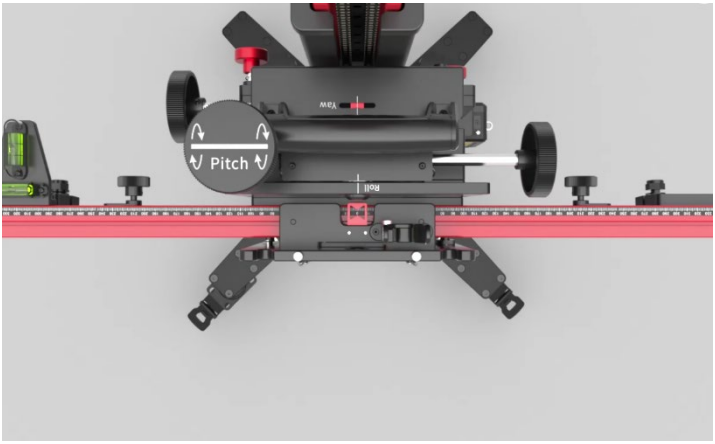


Figure 5-34 ***Adjust the Position of the Sliding Plate***

3. Rotate the fine-adjustment bolt for pitch angle to align the lines.

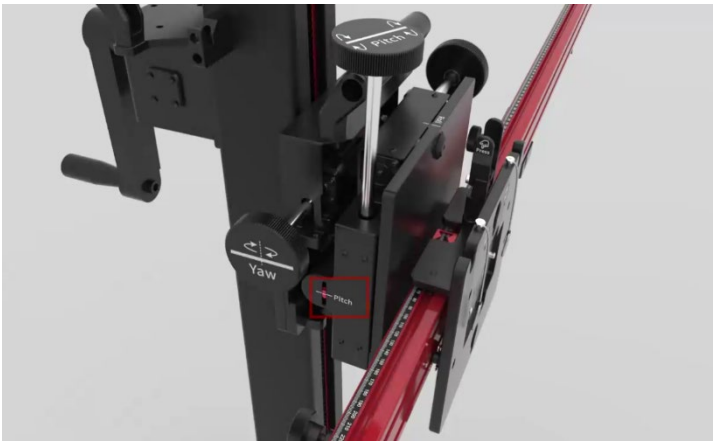


Figure 5-35 ***Adjust the Pitch Angle***

4. Rotate the fine-adjustment bolt for roll angle to align the lines.

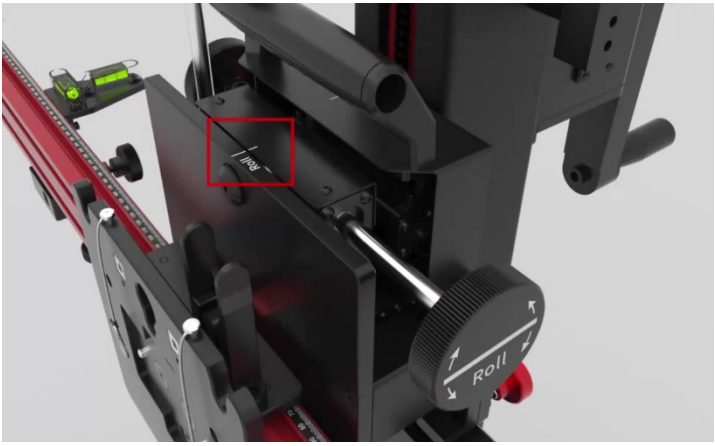


Figure 5-36 ***Adjust the Roll Angle***

5. Rotate the fine-adjustment bolt for yaw angle to align the lines.

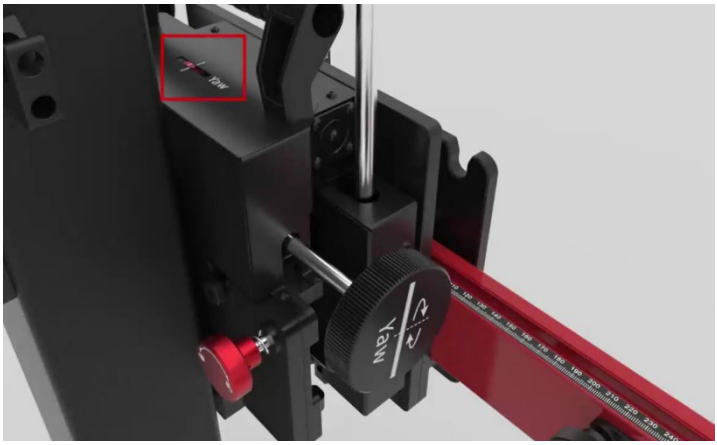


Figure 5-37 ***Adjust the Yaw Angle***

6. Move the calibration frame to the front of the vehicle. Install the two-line laser and the laser distance measurer for center on the large sliding plate. Ensure the two-line laser and the laser distance measurer for center are turned on and lock the safety snap hook.



Figure 5-38 ***Install the Two-line Laser***

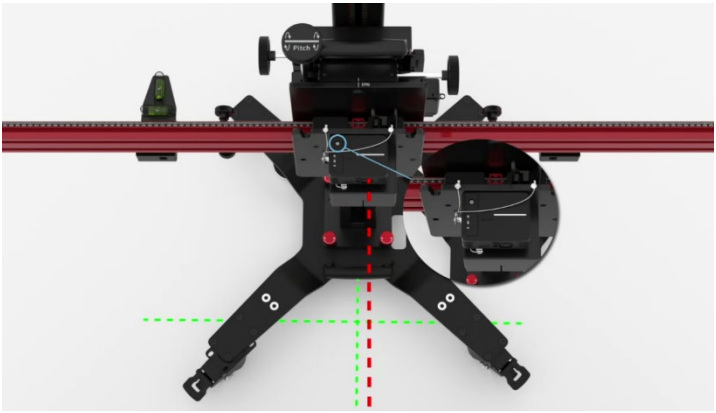


Figure 5-39 ***Install the Laser Distance Measurer for Center***

7. Rotate the bolt (Pitch) and bolt (Roll) to center the bubbles in the bubble levels on the crossbar.



Figure 5-40 ***Center the Bubbles in the Bubble Levels on the Crossbar***

➢ **To position and align the calibration frame**

NOTE

Before positioning and aligning the calibration frame, tap the blue **Connect laser distance measurer for center** button to connect the device to the tablet.

1. Adjust the crossbar height so that the laser point of the laser distance measurer for center is level with the center of the bumper.

2. Ensure the intersection point of the laser lines from the two-line laser on the calibration frame is located on the laser line of the two-line laser for centerline, and the laser line of the two-line laser coincides with the laser line of the two-line laser for centerline as much as possible. Move the calibration frame along the laser line of the two-line laser for centerline so that **Distance** is displayed in green.

3. Tighten the leveling feet and depress the brakes to secure the calibration frame. Rotate the fine adjustment bolt (Yaw) so that the laser line of the two-line laser coincides with the laser line of the two-line laser for centerline.

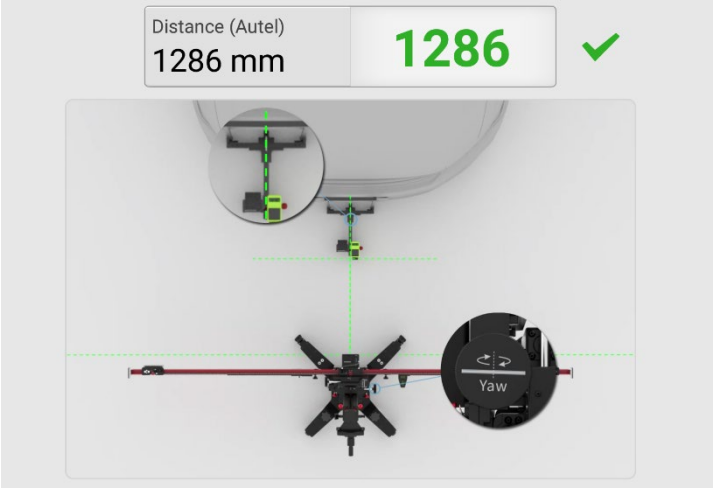


Figure 5-41 ***Position and Align the Calibration Frame***

NOTE

After properly positioning the calibration frame, perform the following steps:

- Turn off and remove the two-line laser on the calibration frame.
- Turn off the two-line laser for centerline on the alignment stand. Remove the alignment stand and the laser plate.
- Press **ESC** to return to the calibration preparation interface, then press **OK** to start the calibration.

5.2.6 Position the Calibration Tools

➢ **To install the laser distance measurer for center**

Install the laser distance measurer for center AUTEL-CSC050A/26 into the groove on the large sliding plate and lock the safety snap hook. Pay attention to the installation position.

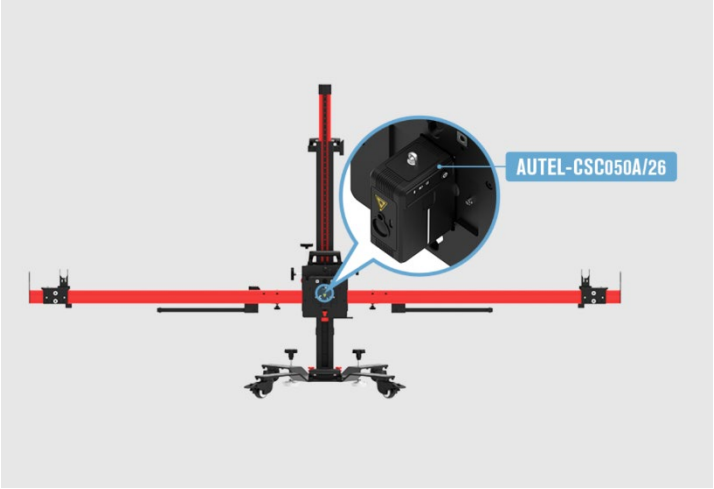


Figure 5-42 ***Install the Laser Distance Measurer for Center***

➢ **To adjust the crossbar and large sliding plate position**

NOTE

Before aligning the calibration frame, tap the blue **Connect laser distance measurer for center** button to connect the device to the tablet.

1. Ensure the laser distance measurer for center switch is turned on. Press **On** to activate the laser beam of the laser distance measurer for center.
2. Adjust the height of the crossbar and move the large sliding plate left and right so that the laser beam (1) of the laser distance measurer for center aligns with the center (3) of the night vision system camera.
3. Turn off the laser distance measurer for center and remove it from the large sliding plate. Then install the laser distance measurer for center on the mounting bracket (2).

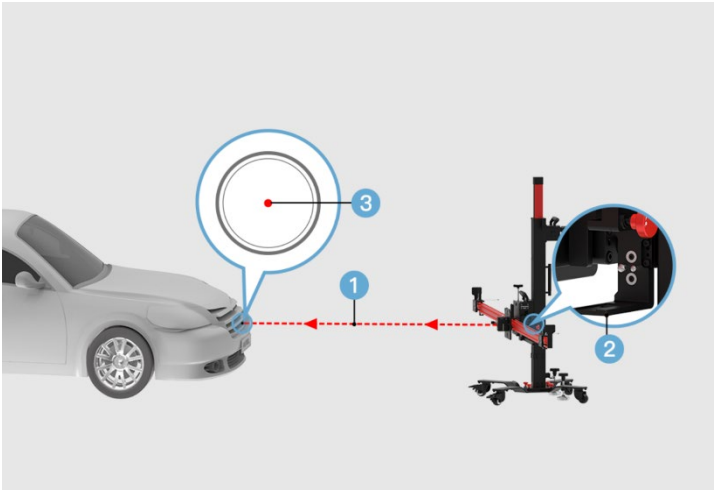


Figure 5-43 ***Adjust the Position of the Crossbar and Large Sliding Plate***

➢ **To install and power on the NV calibrator**

1. Install the NV calibrator AUTEL-CSC0603/01 on the large sliding plate so that it fits against the large sliding plate.

2. Connect the corresponding power cable to the power port (1) and turn on the power switch (2). The red lamp (3) will illuminate.

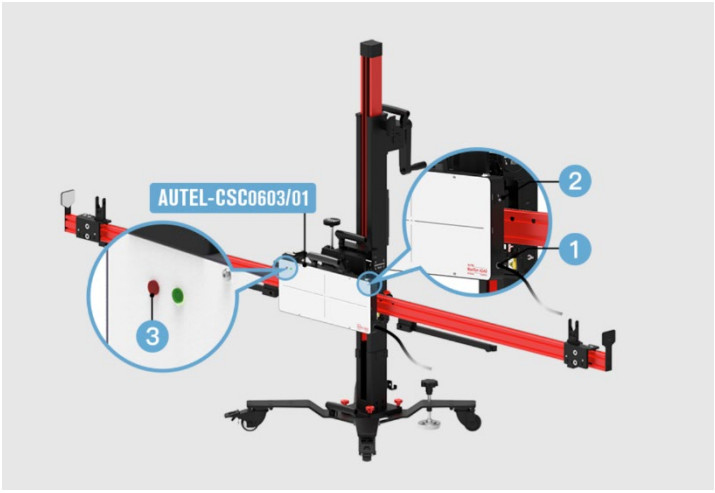


Figure 5-44 ***Install and Power on the NV Calibrator***

3. Rotate bolt 1 (Pitch) and bolt 2 (Roll) to center the bubbles in the bubble levels (3) on the NV calibrator.

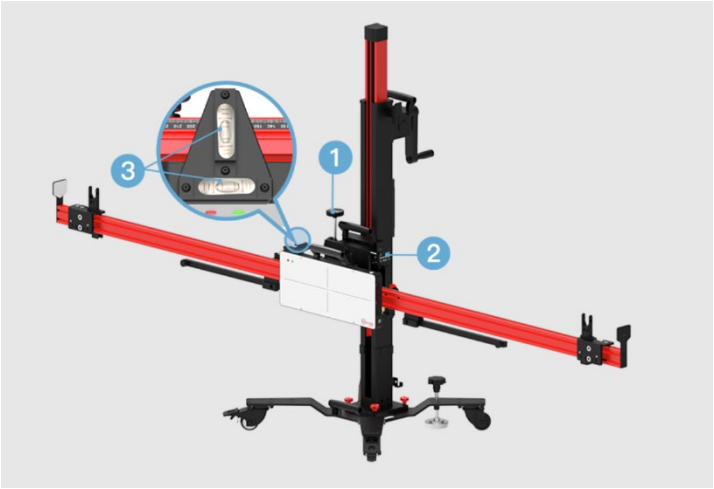


Figure 5-45 ***Center the Bubbles in the Bubble Levels on the NV Calibrator***

➢ **To calibrate the night vision system camera**

1. Press and hold the button (1) for 2 seconds, and the buzzer will sound intermittently. After about 20 seconds, the green lamp (2) will light up.

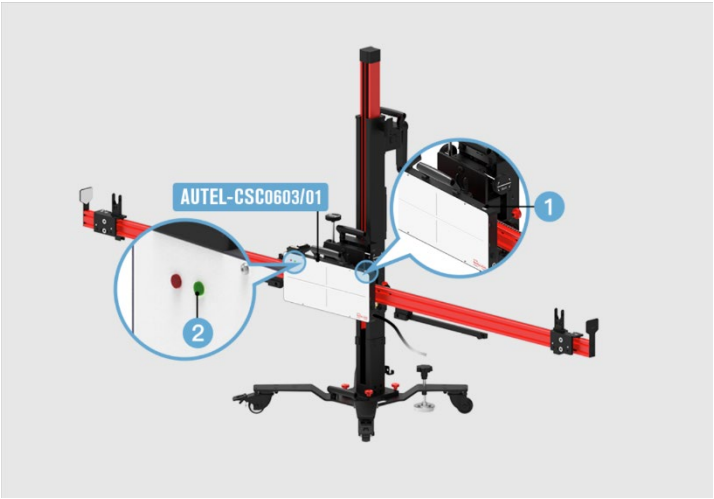


Figure 5-46 ***Start the NV Calibrator***

NOTE

- After 30 minutes, the NV calibrator AUTEL-CSC0603/01 will automatically stop working, the green lamp will go out, and the buzzer will sound for 1 second. To restart, press and hold the switch (1) for 2 seconds.
- When the NV calibrator is working normally, press and hold the switch (1) for 2 seconds; the green lamp will go out, and the NV calibrator will stop working.

2. Follow the on-screen instructions to operate step by step, and finally complete the automatic calibration.

6 Maintenance and Service

6.1 Maintenance Instructions

- Keep the calibration tools clean at all times.
- Do not use any abrasive or corrosive cleaners or detergents.
- Do not immerse the calibration tools in water or other fluids.
- Maintain the tools in dry conditions and keep them within normal operating temperatures.
- Do not store the tools in humid, dusty, or dirty areas.
- Use only authorized battery chargers and accessories. Any malfunction or damage caused by the use of unauthorized battery chargers and accessories will void the limited product warranty.
- Ensure that the battery charger does not come in contact with conductive objects.
- If the calibration tools fail despite the care taken in manufacturing and testing procedures, repair should be carried out by an authorized after-sales service center for Autel tools.

NOTE

- 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.

For detailed information on maintenance and service procedures, refer to the *MA800 After-sales Service Manual*.

6.2 Service Procedures

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

6.2.1 Technical Support

If you have any questions or problems with product operations, please contact us.

Autel China Headquarters

- **Phone:** +86 (0755) 8614-7779 (Monday-Friday, 9AM-6PM Beijing Time)
- **Email:** support@autel.com
- **Address:** Floor 2, Caihong Keji Building, 36 Hi-tech North Six Road, Songpingshan Community, Xili Sub-district, Nanshan District, Shenzhen City, China
- **Web:** www.autel.com

Autel North America

- **Phone:** 1-855-288-3587 (Monday-Friday, 9AM-6PM Eastern Time)
- **Email:** ussupport@autel.com
- **Address:** 36 Harbor Park Drive, Port Washington, New York, USA 11050
- **Web:** www.autel.com/us

Autel Europe

- **Phone:** +49(0)89 540299608 (Monday-Friday, 9AM-6PM Berlin Time)
- **Email:** support.eu@autel.com
- **Address:** Landsberger Str. 408, 81241 München, Germany
- **Web:** www.autel.eu

Autel APAC

Japan:

- **Phone:** +81-045-548-6282
- **Email:** support.jp@autel.com
- **Address:** 6th Floor, Ari-nadoribiru 3-7-7, Shinyokohama, Kohoku-ku, Yokohama-shi, Kanagawa-ken, 222-0033 Japan
- **Web:** www.autel.com/jp

Australia:

- **Email:** ausupport@autel.com
- **Address:** Unit 5, 25 Veronica Street, Capalaba

Autel IMEA

- **Phone:** +971 585 002709 (in UAE)
- **Email:** imea-support@autel.com
- **Address:** 906-17, Preatoni Tower (Cluster L), Jumeirah Lakes Tower, DMCC, Dubai,

UAE

- **Web:** www.autel.com

Autel Latin America

Mexico:

- **Phone:** +52 33 1001 7880 (Spanish in Mexico)
- **Email:** latsupport@autel.com
- **Address:** Avenida Americas 1905, 6B, Colonia Aldrete, Guadalajara, Jalisco, Mexico

Brazil:

- **Email:** brsupport@autel.com
- **Address:** Avenida José de Souza Campos n° 900, sala 32 Nova Campinas Campinas – SP, Brazil
- **Web:** www.autel.com/br

6.2.2 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 equipment to your local agent or to the address below:

Floor 2, Caihong Keji Building, 36 Hi-tech North Six Road, Songpingshan Community, Xili Sub-district, Nanshan District, Shenzhen City, China

6.2.3 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

7 Compliance Information

FCC Statement

Laser Measure Unit FCC ID: 2BVGW-CSC050A26

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.

⚠**WARNING**

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

FCC and ISED Radiation Exposure Statement

This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a

minimum distance of 20 cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition au rayonnement FCC et ISED établies pour un environnement non contrôlé, cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

ISED Statement

Laser Measure Unit IC: 10826A-CSC050A26

This device complies with Innovation, Science and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and

2. This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux normes RSS exemptées de licence d'innovation, sciences et développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage, et

2. L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CE Compliance

This product is declared to conform to the essential requirements of the following directives and carries the CE mark accordingly:

Radio Equipment Directive 2014/53/EU

RoHS Compliance

This device is declared to be in compliance with the European RoHS Directive 2011/65/EU and Commission Delegated Directive (EU) 2015/863 and all subsequent amendments, restricting the use of hazardous substances in electrical and electronic equipment.



Autel Intelligent Technology Corp., Ltd.

www.autel.com

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