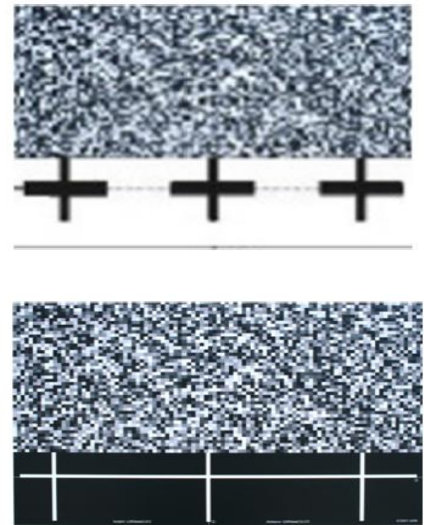


# Bosch ADAS Calibration Fixture for Subaru of America

**Part number: 16-1690380126**

This document provides hints, tips, setup and operational assistance for the Bosch ADAS Calibration Fixture for Subaru of America vehicles equipped with the EyeSight® Advanced Driver Assist System.



Troubleshooting\_Guide\_Calibration

Fixture\_Rev\_1.03

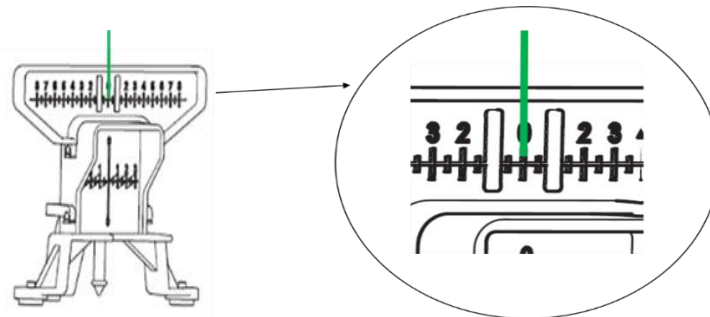
## Application: Subaru Ascent

### Raise the Target so the Centerline Laser is Visible on the Roof Target

Due to the taller roofline of the Ascent, the centerline laser may not appear on the roof target when setting up the calibration fixture.

#### ***TIP:***

Temporarily raise the fixture height setting until the centerline laser appears on the roof target. Align the centerline laser with the front emblem of the vehicle and the roof target as described in the user manual. After the fixture's base is secured and level, lower the fixture height setting to the specified height. Also be sure that the wheel stand at the right front wheel centerline is level as this can impact the laser tape measure distance measurement.



## Application: All Subaru Models with EyeSight®

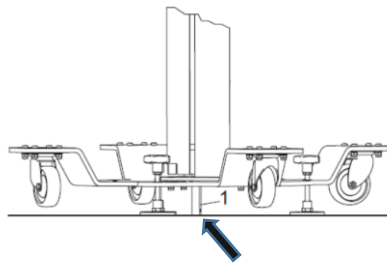
### Verify that the Height Ruler is Touching the Ground Before Making the Final Height Adjustment.

There is a physical **height ruler** that is included with this fixture. The height ruler is used to adjust the target to the specified height.

The height ruler thumbscrew can be loosened so the height ruler can be adjusted up and down. The height ruler should not be touching the ground when the calibration fixture is being moved around the garage.

#### **TIP:**

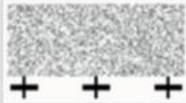
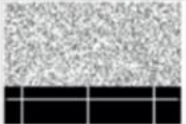
Before making the final target height adjustment, be sure that the height ruler is lowered all the way through the base plate until it is touching the ground. This will allow for an accurate height measurement.



Height Ruler Location

## **Troubleshooting Tip – Static Calibration on Vehicle is Not Successful after Using Subaru Diagnostic Scan Tool**

1. Verify that the **Correct Target** is being used per the Subaru service procedure and based on the vehicle make/model/model year.

Designation	Fig.	Part number
Subaru 2S <sup>1) 2)</sup>		16-1690382608
Subaru 3S <sup>1) 2)</sup>		16-1690382590

2. Verify **Lighting Conditions and Floor Level** in the workshop  
Excessive sunlight and artificial light can wash out the centerline laser's appearance on the roof target.

### ***TIP:***


Follow the service procedure guidelines respective to lighting conditions and verify that excessive lighting is not washing out the centerline laser's appearance on the roof target.

#### **6.1 Ambient conditions**


##### **6.1.1 Evenness of measurement bay**

The unevenness of the SCT 415 S52 measurement bay must not exceed 1 mm. The unevenness of the vehicle contact surface is 10 mm.

##### **6.1.2 Test bay conditions**

 Operate the measurement as specified by the manufacturer.

- Avoid direct sunlight at the measurement bay.
- Ensure adequate lighting.

 The background behind the measurement boards must not be too bright.

### 3. Verify **Target Setup and Alignment**

- Make sure the wheel stand at the right front axle centerline is properly aligned and level.
- Make sure the laser tape measure distance to the wheel stand is correct.
- Verify that the centerline laser is centered on both the vehicle front emblem and the center of the roof target.
- Verify that the target is at the specified height setting.
- Make sure the calibration fixture is level for pitch and roll by viewing the spirit levels.
- Make sure the calibration fixture is secured at the base with the leveling feet.
- If necessary, re-start the setup process from the beginning per the service procedure

### **General Information**

#### **Required Components (Equipment Retailer Solutions part numbers)**

16-1690380126	Calibration Fixture
16-1690382608	Subaru Target 2
16-1690382590	Subaru Target 3
16-582990	Laser Tape Measure

Call 1.866.213.4690 for additional technical questions.