



Technical Service Bulletin

GROUP**CAMPAIGN****NUMBER****21-01-029G****DATE****APRIL, 2021****MODEL(S)****G80 (RG3)**

SUBJECT: GENESIS G80 HEADLAMP AIMING INSPECTION/ADJUSTMENT
(SERVICE CAMPAIGN 903G)

★ IMPORTANT***** Dealer Stock and Retail *****

Dealers must perform this Service Campaign on all affected vehicles prior to customer retail delivery and whenever an affected vehicle is in the shop for any maintenance or repair.

When a vehicle arrives at the Service Department, access Genesis Motor America's "Warranty Vehicle Information" screen via WEBDCS to identify open Campaigns.

Description: This bulletin provides the procedure to inspect, and if necessary adjust the headlight aim on some 2021 MY Genesis G80 (RG3) vehicles equipped with Light Emitting Diode (LED) headlamps. The adjustment can help improve headlamp focus and reduce glare from the headlights to oncoming traffic.



Applicable Vehicles: Certain 21MY Genesis G80 (RG3) vehicles.

SUBJECT:**GENESIS G80 HEADLAMP AIMING INSPECTION/ADJUSTMENT
(SERVICE CAMPAIGN 903G)****Warranty Information:**

Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
G80 (RG3)	10D050R0	Headlamp Aiming Inspection and Adjustment	0.3 M/H	92102-T1020	B12	ZZ7
	10D050R1	Headlamp Aiming Inspection, Adjustment, and Setup	1.0 M/H			

NOTE 1: Submit Claim on Campaign Claim Entry Screen

NOTE 2: If a part is found in need of replacement while performing this Service Campaign 903G and the affected part is still under warranty, submit a separate claim using the same Repair Order. If the affected part is out of warranty, submit a Prior Approval Request for goodwill consideration prior to performing the work.

NOTE 3: Please note that op code 10D050R1 for 1.0 M/H is for BOTH setting up the technician station's area for headlamp aiming and for the service procedure of headlamp aiming. If a new station needs to be setup and headlamp aiming be performed, please claim 1.0 M/H. If station is already setup based on a previous vehicle being repaired, please claim op code 10D050R0 for 0.3 M/H. Submitted claims where dealers already have the stations setup, but are claiming 1.0 for BOTH setup and headlamp aiming, are subject to chargeback.

Tools Required:

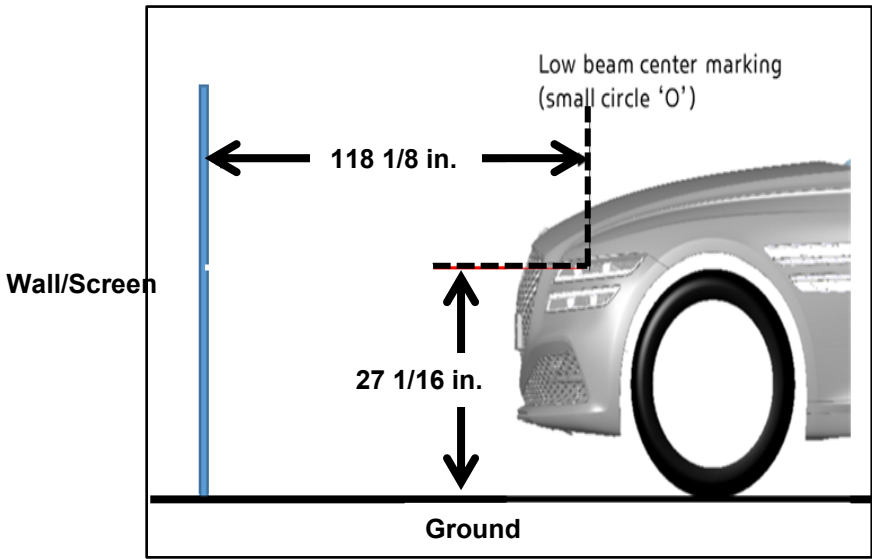
			
SCC Calibration Laser (SST No. : 09964-C1200) and Tripod (SST No. : 09964-C1300)	Tape Measurement and Yard stick. Yard stick is not required, but can be useful.	Blue Tape and/or Duct tape and a permanent marker.	Approximately 20 pieces of 1/8 in. 12 in. X 12 in. Tempered Hardboard/Metal Shims. Can be sourced at local hardware store.

Service Procedure:

Steps 1-9 are for setup of station for first **Genesis G80 vehicle**.
Steps 10-20 are for headlamp aiming and adjustment, assuming station is already setup; Please ensure that vehicle's tires are inflated to proper specification prior to performing headlamp aiming and adjustment.

NOTICE

To perform the headlamp aiming check and adjustment, a distance of 118 1/8 inches is required between the vehicle and wall or screen. Vehicle should also be on a flat surface. If the floor surface is not flat, refer to the steps from below to level the floor.



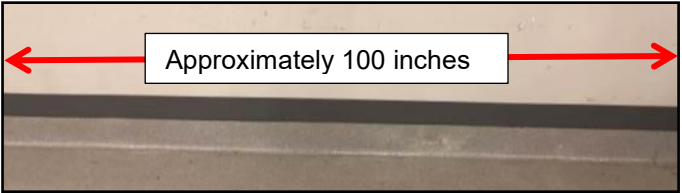
Engine	Low Beam Center Marking Height to Floor	Vehicle Headlamp Distance to Wall/Screen
3.5 T/2.5T	27 1/16 in.	118 1/8 in.

Vehicle Alignment To The Wall

1. Park the vehicle on a flat surface in front of a screen or wall.

Ensure the wall or screen is wide enough to display both the left and right headlamp beams.
2. Check the front and rear tire pressure to ensure it is inflated to the correct pressure (38psi).

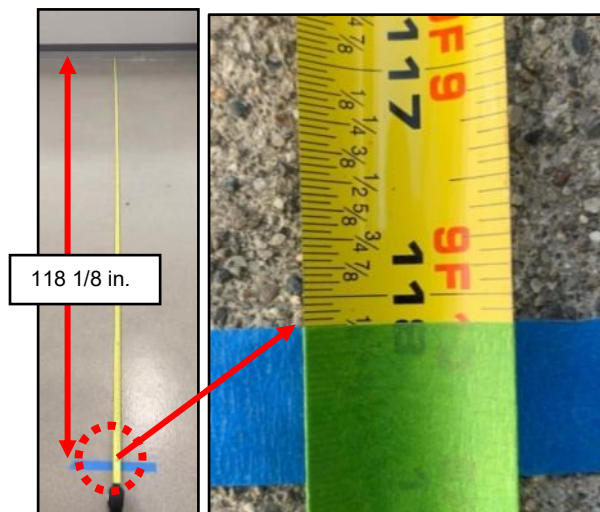
Adjust the tire pressure by inflating or deflating as necessary.



3. Measure 118 1/8 in. from the wall and place two pieces of masking tape or two marks approximately 5.5 ft. apart from each other onto the floor.

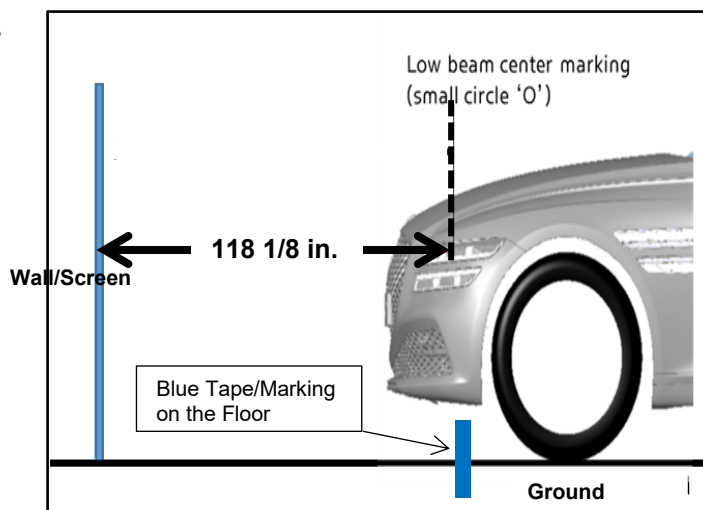
NOTICE

The purpose of these two markings is to provide assistance with aligning the vehicle in parallel to the wall/screen along with approximate distance. The measurement in the next step will be precise.



4. Drive the vehicle towards the two marks/tapes on the floor and measure 118 1/8 in. from the headlamp center point imprinted circle to the wall/screen.

Confirm **both** the left and right headlamps center points are 118 1/8 in. away from the wall/screen. This will ensure the vehicle is paralleled with the wall/screen.



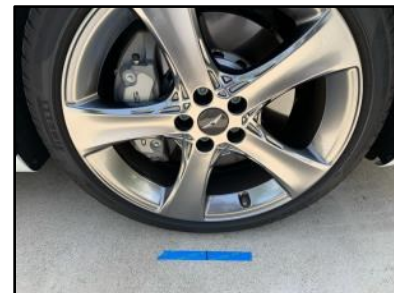
The center point for the light bulb is the circle imprinted on the headlamp. It may be difficult to see the imprinted circle, so viewing from different angles is required.

The picture to the right illustrates the location of the imprinted circle overlay with the blue tape for better visual.



5. Mark the center of the tire locations for each wheel

Place a masking tape at the center of the tire, and draw a line to match with the center wheel axle.

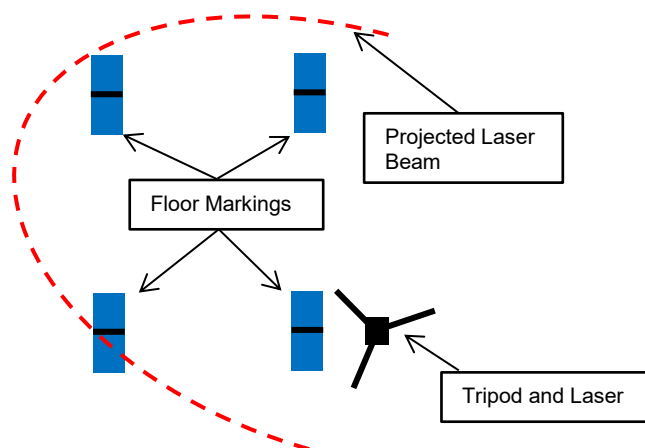


Floor Level Validation

6. Move the vehicle away from the 4 marked tape points.
7. Connect the Laser to the Tripod and move it to one of the four tire markings on the floor.

Turn the laser ON and confirm it is projecting a horizontal beam.

Adjust the Tripod tilt if necessary until the laser is showing a stable beam, and shooting across to all the other three corners.



NOTICE

The laser is a self-leveling system. As long as the laser is showing a constant beam, it is shooting a straight line.

8. Adjust the laser to any height desired (ex. 10", 15", 20", 25" and etc.), and then tighten the tripod legs and laser to ensure the setting does not change.

Take measurements of the remaining three markings on the floor.



9. Compare the four height measurements. If they are all the same height then the floor is leveled. If not, then proceed with using the 1/8" hardwood/metal plank(s) to shim the floor.

Confirm all four corners are at the same height.

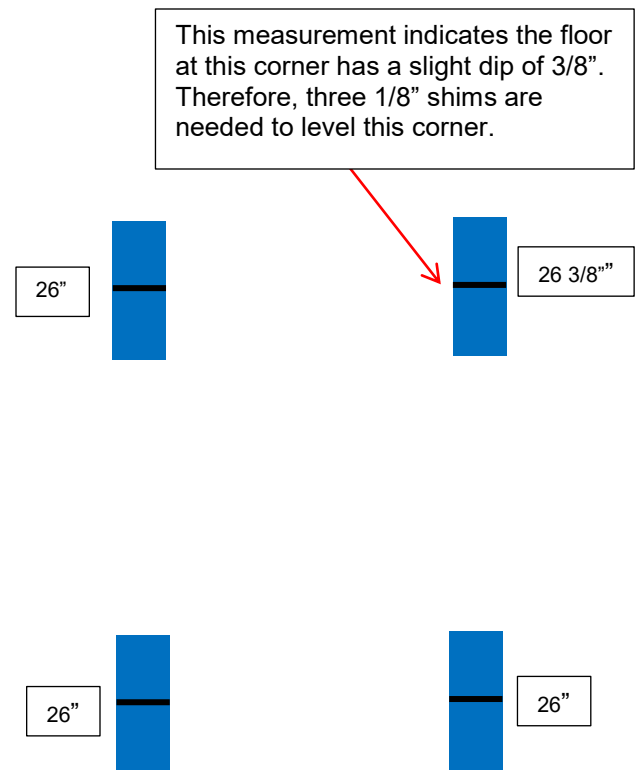
NOTICE

If necessary, use duct tape to tape the plank(s) onto the floor. This will prevent slippage and save the setup for the next vehicle.

NOTICE

The picture to the right is only an example. There are cases where multiple corners will require shimming.

Example of measurements and shimming:



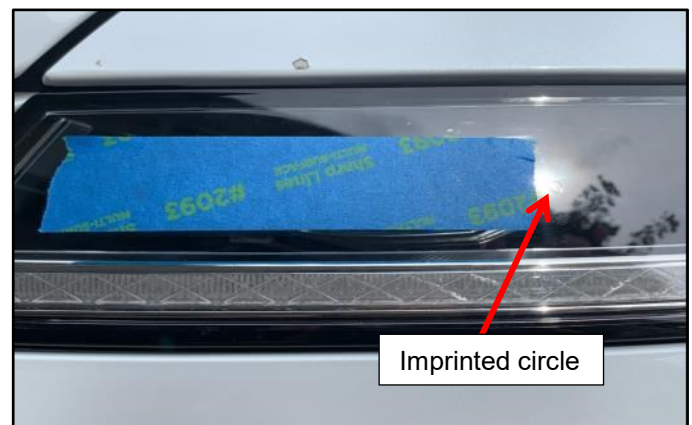
Headlamp Beam Validation/Adjustment

10. Drive the vehicle and align the tires onto the four marks on the floor.

If applicable, ensure the hardboard/metal shimming does not slip away from the tire.

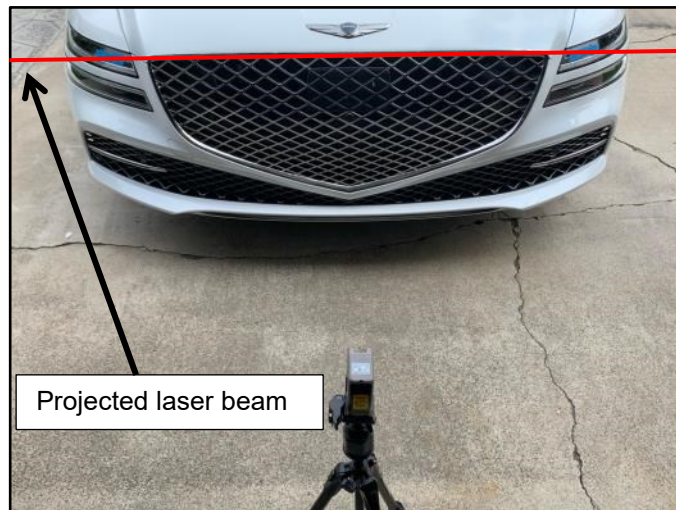
Ensure both the left and right headlamp circle markings on the headlamp are 118 1/8 in. away from the wall.

11. Place a piece of masking tape next to the imprinted circle to each headlamp. The masking tape will make it easier to see the laser.



12. Place the laser and tripod in front center of the vehicle and verify if the laser line is evenly crossing the left and right headlamp imprinted circle.

This will confirm the vehicles is leveled.



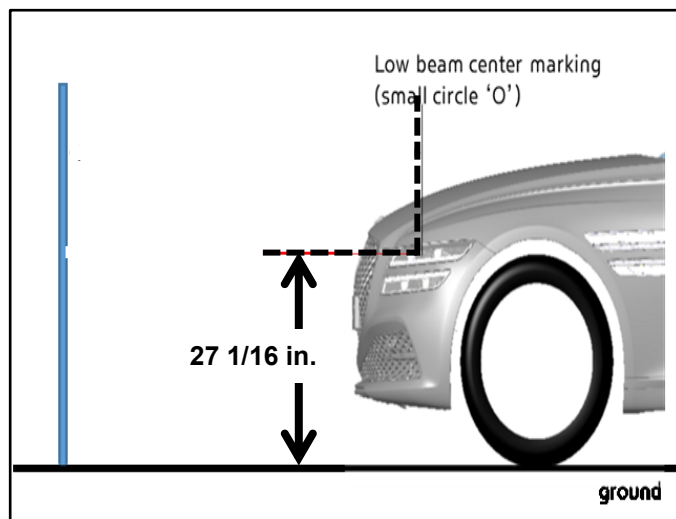
13. Use a tape measurement or yard stick and measure the height of the low beam imprinted circle mark on the headlamp to the ground or shim (if applicable).

If the tire is shimmed then the ground level is the top of the shim.

Confirm the measurement of the imprinted circle mark is 27 1/16 in. to the ground/shim.

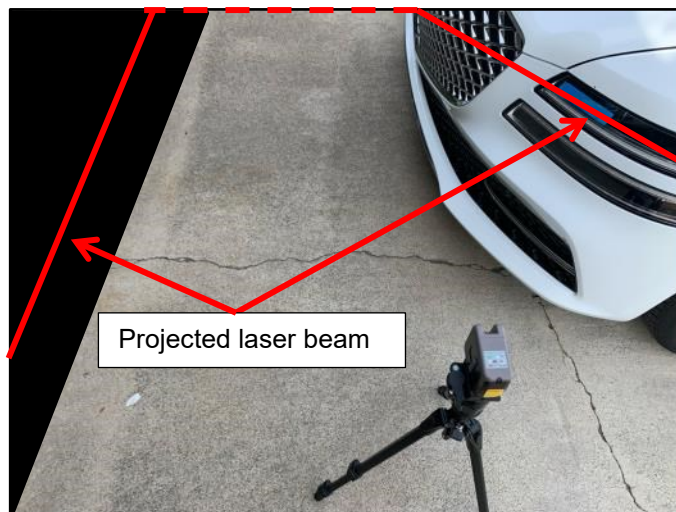
NOTICE

If necessary, move the laser and tripod towards the wheel and align the laser beam to the imprinted circle mark on the headlamp. Take the measurement from the projected beam to the ground.

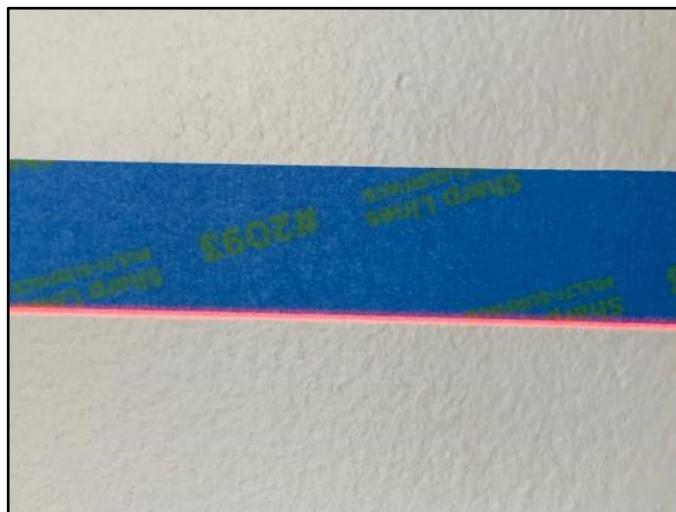


14. Move the Tripod and laser near the front corner of the headlamp and adjust until the laser hits the center of the circle marking on the lamp and the wall.

The image to the right is an edited picture to illustrate an example of laser alignment.



15. Make a mark or place a piece of masking tape on the wall following the laser line.



16. Remove the masking tape on the headlamps, and turn the ignition and headlights ON.

NOTICE

If possible, lower/dim the shop light so it is easier to see the headlight beam cut-off line.



17. Confirm if the top of the beam light for both the left and right side are at the line on the wall. If not, adjust the beam by following the procedure described in the next step.

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18. Insert a long Phillips screwdriver into the adjusting hole and turn it clockwise or counterclockwise.

Turning the screwdriver clockwise will bring the beam downward and counterclockwise will bring the beam upward.

NOTICE

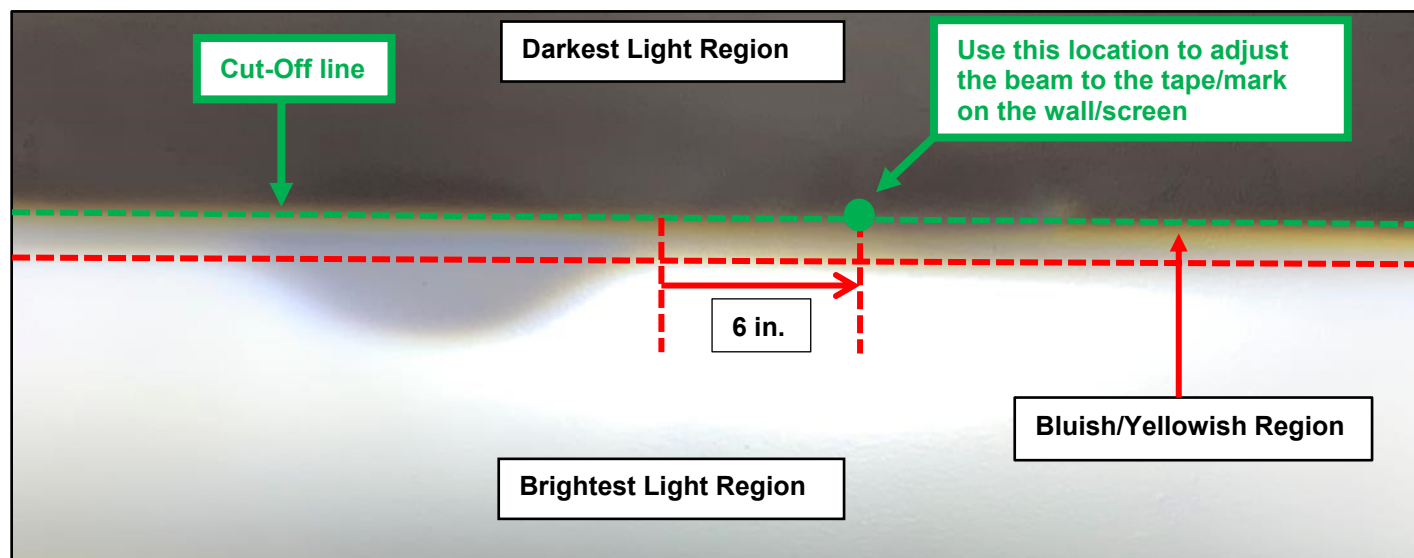
Perform the headlight beam adjustment with the vehicle unoccupied. The vehicle must be empty.

**Cut-Off Line Explained****NOTICE**

Both the left and right headlamp produces a slight bluish and yellowish light right above the brightest point of the beam. The Cut-Off line is right above the bluish/yellowish area.

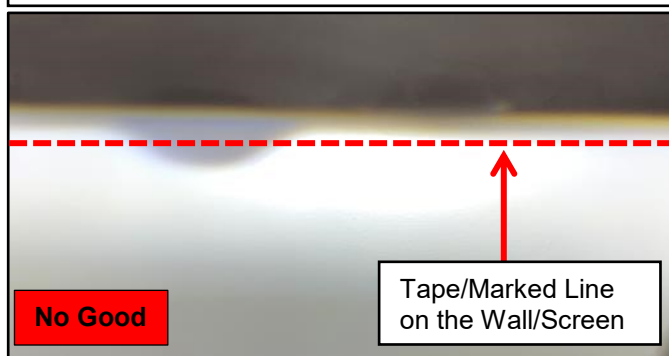
NOTICE

The location to concentrate the viewing point is approximately 6 inches to the right from where the curved area ends. Use this location to adjust the headlight beam height to align with the tape/mark on the wall/screen.

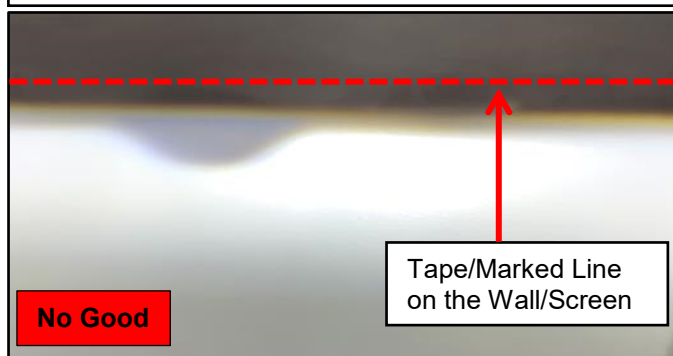


Close Up Example Of The Passenger Side Headlight Beam Adjustment

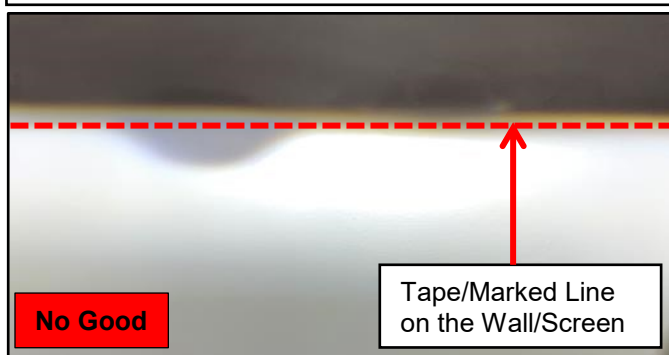
Headlight beam cut-off line is too high and requires adjustment downward to the marked line on the wall/screen.



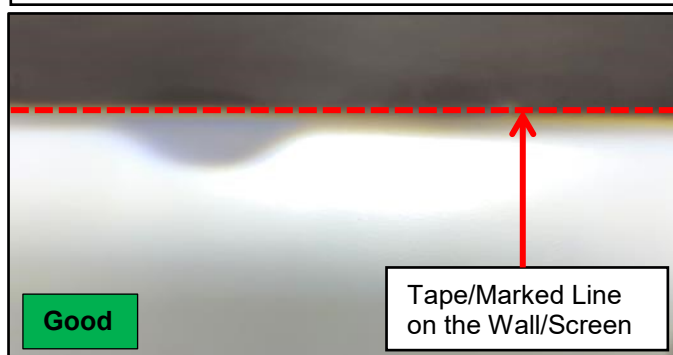
Headlight beam cut-off line is too low and requires adjustment downward to the marked line on the wall/screen.



Headlight beam cut-off line is slightly high and requires a slight adjustment downward to the marked line on the wall/screen.



Headlight beam cut-off line is adjusted right at the marked line on the wall/screen.



19. Visually inspect to ensure both headlamp cut-off lines are even with each other.



20. Leave the markings on the floor. If the shims were not taped down, take note of which corners required shimming. This will help ease the adjustment of another Genesis G80 (RG3).

Procedure complete.

Headlamp Aiming Inspection and Adjustment of Following Genesis G80 (RG3)

1. Since the floor leveling is already confirmed/adjusted, some of the setup steps can be skipped.

Repeat the following steps when performing the headlamp aiming inspection/adjustment to another Genesis G80 (RG3):

Step 2

Steps 10-20

NOTICE

The headlamp beam alignment mark on the wall may differ from one Genesis G80 (RG3) to another. It is required to use the laser and project the line onto the wall for each Genesis G80 (RG3).