

Last Modified: 8-20-2012	6.4 N	From: 201110
Model Year: 2012	Model: 4Runner	Doc ID: RM000001GEG01IX
Title: LIGHTING (EXT): FOG LIGHT ASSEMBLY: ADJUSTMENT (2012 4Runner)		

ADJUSTMENT

1. VEHICLE PREPARATION FOR FOG LIGHT AIM ADJUSTMENT

(a) Prepare the vehicle:

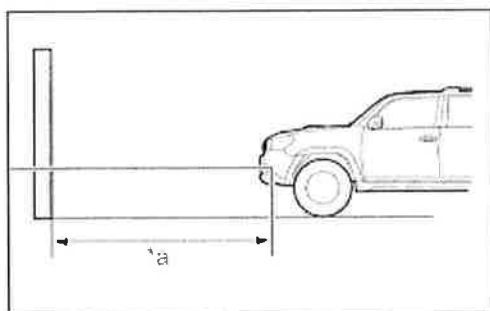
- Make sure that the vehicle has no damage or deformation around the headlights.
- Fill the fuel tank.
- Make sure that all of the different types of oil in the vehicle (engine oil, etc.) are filled to the specified levels.
- Make sure that the coolant is filled to the specified level.
- Inflate the tires to the appropriate pressure.
- Place the spare tire, tools, and jack in their original positions.
- Unload the trunk.
- Have a person that weighs approximately 68 kg (150 lb) sit in the driver seat.

2. PREPARATION FOR FOG LIGHT AIMING (Using a screen)

(a) Prepare the vehicle according to the following conditions:

Text in Illustration

*a	7.62 or 3 m
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- Move the vehicle to a location that is sufficiently dark so that the headlight cutoff line can be visually checked. The cutoff line is an imaginary plane below which headlight light is projected and above which light is not projected.
- Move the vehicle to a level surface.
- Point the front of the vehicle at a wall. The wall must be perpendicular to the surface that the vehicle is on.
- Position the vehicle 7.62 m (25 ft.) from the wall.
- Push down on the vehicle several times to settle the suspension.

HINT:

A distance of 7.62 m (25 ft.) between the vehicle and wall is necessary for proper aim adjustment. If unavailable, secure a distance of exactly 3 m (9.8 ft.). View the part of the illustration below applicable to the distance from the vehicle to the wall.

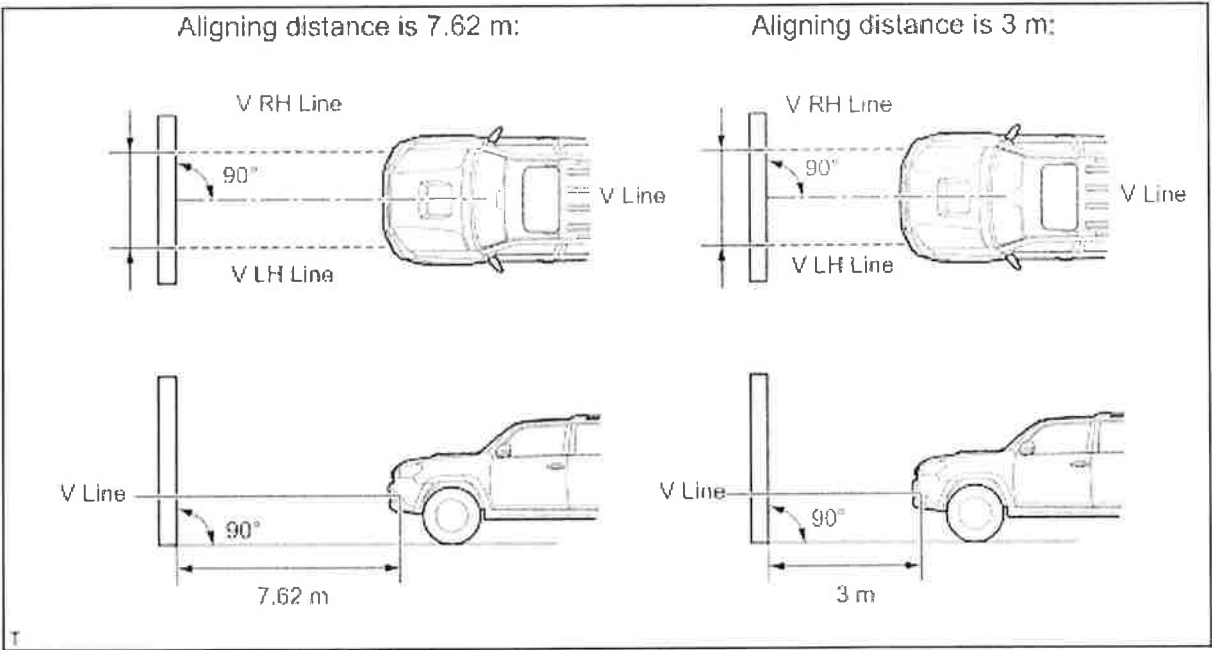
NOTICE:

Be careful not to damage the suspension.

- (b) Prepare a piece of thick white paper that is approximately 2 m (6.6 ft.) (height) x 4 m (13.1 ft.) (width) to use as a screen.
- (c) Draw a vertical line down the center of the screen (V line).
- (d) Set the screen as shown in the illustration.

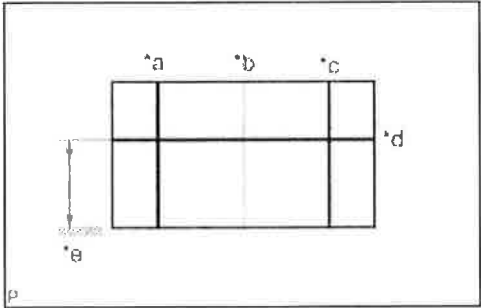
HINT:

- Stand the screen perpendicular to the ground.
- Align the V line on the screen with the center of the vehicle.



- (e) Draw base lines (H line, V LH and V RH lines) on the screen as shown in the illustration.

Text in Illustration



*a	V LH Line
*b	V Line
*c	V RH Line
*d	H Line
*e	Ground

- (1) H Line (fog light height): Draw a horizontal line across the screen so that it passes through the center marks. The H line should be at the same height as the fog light bulb center marks of the fog lights.

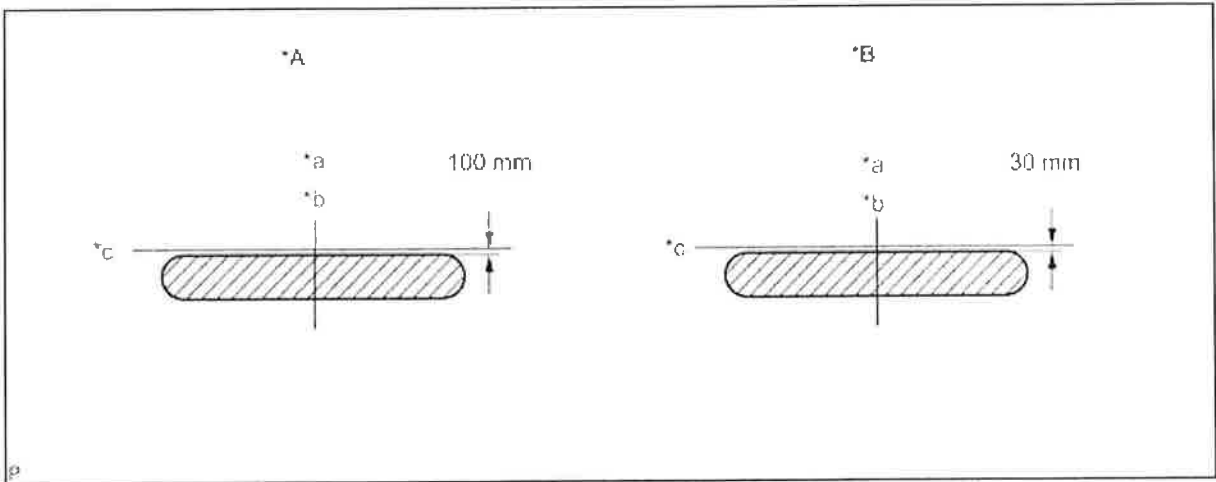
(2) V LH Line, V RH Line (center mark position of LH and RH fog lights): Draw two vertical lines so that they intersect the H line at each center mark.

3. INSPECT FOG LIGHT AIMING

- (a) Choose a headlight to inspect first. Cover or disconnect the connector of the other fog light to prevent light from that fog light from affecting the fog light aiming inspection.
- (b) Start the engine.

NOTICE:
The engine speed must be 1500 or more.

- (c) Turn on the fog lights and make sure that the cutoff line is within the specified area shown in the illustration.



Text in Illustration

*A	Aligning distance is 7.62 m	*B	Aligning distance is 3 m
*a	V LH Line	*b	V RH Line
*c	H Line	-	-

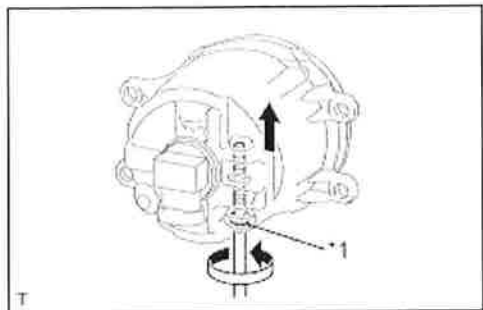
4. ADJUST FOG LIGHT AIMING

- (a) Adjust the fog light aim into the specified range by turning the aiming screw with a screwdriver.

Text in Illustration

*1	Aiming Screw
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NOTICE:
If the screw is tightened too much, loosen it and then



retighten it so that the final turn of the screw is in the clockwise direction.

