

2003 Lexus LX470

Submodel: | Engine Type: V8 | Liters: 4.7

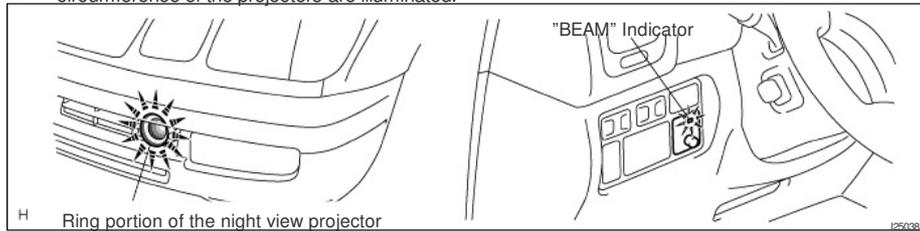
Fuel Delivery: FI | Fuel: GAS

DEC8-01

PRE-CHECK

1. PRECAUTIONS

- The Night View Projectors emit near-infrared rays, which are invisible to the naked eye. Therefore, when the Night View Projectors are on, avoid looking directly into them. (more than 5 minutes) The light energy emitted is almost equal to looking directly into the high beams.
- When the Night View Projectors are on, the BEAM indicator light on the Night View Switch and the outer circumference of the projectors are illuminated.



2. DESCRIPTION

- The LEXUS Night View System uses a camera to capture reflected near-infrared light off objects illuminated by the Night View Projectors, headlights and surrounding light. The camera is connected to the Night View ECU which uses a display to project the images on the windshield.
- The operation of the system is permitted only when the ignition, headlight and Night View Switches are ON, and the light control sensor of the Automatic Light Control System has determined that the surroundings of the vehicle are dark.
- The Night View Projectors operate only when the vehicle is being driven over 6 km/h (4 mph) when the system is operating. They turn OFF when the vehicle comes to a stop, under 3km/h (2 mph).

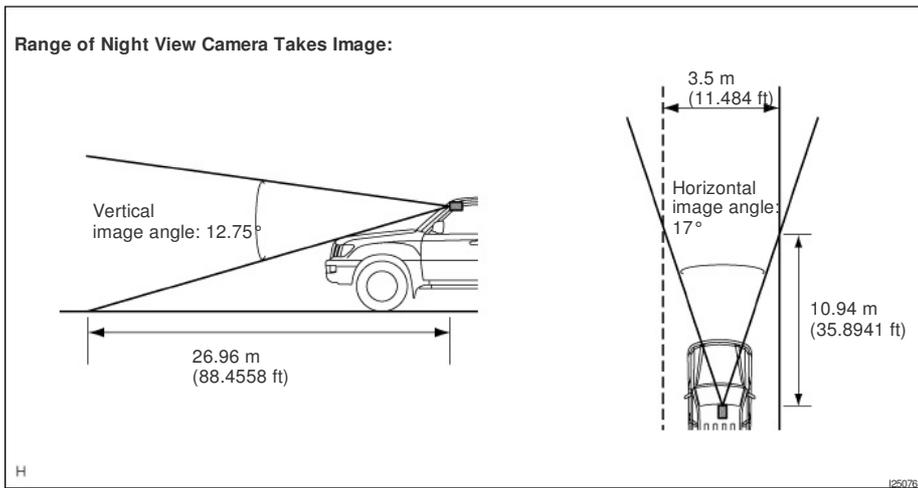
HINT:

The projectors can be checked when the vehicle is stopped using the Inspection Mode Operation.

- Depending on lighting conditions, the weather and cleanliness of the front glass, camera lens and projectors, all objects may not be displayed as bright images. Clean as necessary to improve image quality. Sensitivity can be adjusted to compensate as necessary by turning the Night View Switch knob.
- Since the Night View Display uses a TFT display, it may become dark when the temperature or battery voltage are low. The display should return to normal when the temperature rises to about 15 - 20°C (59 - 68°F) and operating voltage is normal.
- In cold weather, using the heater in "FOOT" mode may cause fogging on the upper part of the front glass. In this case, use the "DEF" mode to clear the glass.

3. RANGE AND FIELD OF VISION

The range that the Night View Camera takes images is shown below.



HINT:

The Night View Camera has an adjustment mechanism (for 3 directions; right and left, up and down, and rotation).

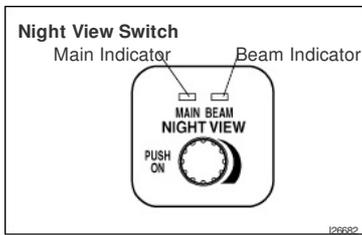
If the range that the Night View camera takes images is different from the range shown above, adjustment is required (See page [BE-97](#)).

4. OPERATING CONDITIONS

Ignition Switch	Night View Switch	Headlight	Brightness of Surrounding	Vehicle Speed	Night View Projector	Night View System (Night View Display)
OFF	NA	NA	NA	NA	OFF	OFF
ON	OFF	NA	NA	NA	OFF	OFF
ON	ON	OFF	NA	NA	OFF	OFF
ON	ON	ON	Bright	NA	OFF	OFF
ON	ON	ON	Dark	Below approx. 6 km/h	OFF	ON
ON	ON	ON	Dark	Above approx. 6 km/h	ON	ON

HINT:

- Each time the ignition switch is turned ON, the Night View Switch also needs to be turned ON to activate the system.
- Approximately 1 second after the above conditions are met, the image will be displayed.
- The Night View Display has a cover. This cover is closed when the display does not operate. If the open and close operation of the display cover is not normal, turn the ignition switch OFF once and then begin the operation again (In this case, the display cover opens first and then closes).



5. INSPECTION MODE

The inspection mode is used to check the Night View Projectors when the vehicle is not moving or the surroundings are bright (daytime).

This mode will automatically turn OFF after 5 minutes.

- (a) Inspection Mode procedure.
 - (1) Ignition switch and headlight OFF.
 - (2) Headlight dimmer switch ON.
 - (3) While pressing the Night View Switch, turn the ignition switch from OFF → ON → OFF → ON.
 - (4) Release the switch. The MAIN indicator should be ON.
 - (5) Press the switch again and the BEAM indicator light should come on.
 - (6) The Night View Projectors should be ON.
 - (7) Display cover should open.
 - (8) The Display should come on approximately 1 second after the display cover opens and an image displayed.
- (b) Pressing the Night View Switch while in inspection mode will turn the BEAM light OFF, turn the projectors OFF, and close the display cover.
Also, turning the headlight dimmer switch OFF will turn the BEAM light OFF and close the display cover.
- (c) Turning the ignition switch off will exit Inspection Mode operation.

6. NIGHT VIEW CAMERA LENS CLEANING

When the camera lens becomes dirty, use the following procedure.

- (a) Remove the Night View Camera cover.
- (b) Remove the Night View Camera.
- (c) Spray lens cleaner on a clean soft cloth and wipe the lens.

NOTICE:

Do not spray cleaner directly on the lens. The cleaner may permeate through the rim of the lens, and damage the camera.

- (d) Reinstall the Night View Camera.
 - (e) Adjust the aim of the Night View Camera (See page [BE-97](#)).
 - (f) Reinstall the Night View Camera cover.
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