


HID Headlight System - Diagnostic Tips

Service Category Vehicle Exterior

Section Lighting (ext)

Market USA

Lexus Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2007 – 2008	ES350	
2006 – 2008	GS300, GS350, GS430, GS450H, GS460	
2006 – 2008	IS250, IS350	
2007 – 2008	LS460	
2002 – 2008	SC430	

Introduction

The following bulletin is a supplement to the Repair Manual and provides diagnostics tips for troubleshooting “*Low Beam Does Not Illuminate (One Side Only)*”.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
N/A	Not Applicable to Warranty	–	–	–	–

Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST'S)	PART NUMBER	QTY
Digital Multimeter (or Digital Volt Ohm Meter [DVOM] or Equivalent)	09082-00050	1
Terminal Gauge Set*	00002-48937-01	1

* Essential SST.

NOTE

Additional SSTs may be ordered by calling SPX/OTC at 1-800-933-8335.

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Repair Procedure

NOTE

If both low beam lights will NOT turn on, refer to the Problem Symptoms Table in the Repair Manual for additional diagnostics.

1. Back-probe the power source circuit at the HID ECU/bulb.
2. Turn the ignition switch and headlight switch to the "ON" position.
3. Using a DVOM, measure voltage drop across the 12V power source to the HID ECU/bulb.
 - If reading is equal to source voltage, proceed to step 4.
 - If reading is NOT equal to source voltage, isolate and repair the trouble area in the headlight assembly power supply circuit.
4. Measure terminal tension/pin fit of the 12V connector at the HID ECU/bulb.
 - Check the pin fit on the power source terminals and ensure it is comparable to other terminals in the connector.

Refer to the Technical Information System (TIS), applicable model and model year EWD, *Vehicle Exterior – Lighting (ext) – "headlight"*.

- If pin fit is loose, repair or replace the connector and harness.

NOTICE

When using the pin fit gauge (SST), insert the tool straight into the terminal. If the pin fit gauge (SST) is NOT inserted straight, the female terminal may be damaged.

5. Switch the HID bulb between the left and right side.
 - If the condition follows the HID bulb, replace the HID bulb.
 - If the condition does NOT follow the bulb, replace the HID ECU.

NOTE

The HID bulb and HID ECU service parts are NOT interchangeable between model years on some vehicles. The HID system will NOT work properly if incompatible HID bulbs and/or ECUs are used. When ordering a new HID bulb or HID ECU, confirm that the production period for the part matches the build date of the vehicle.