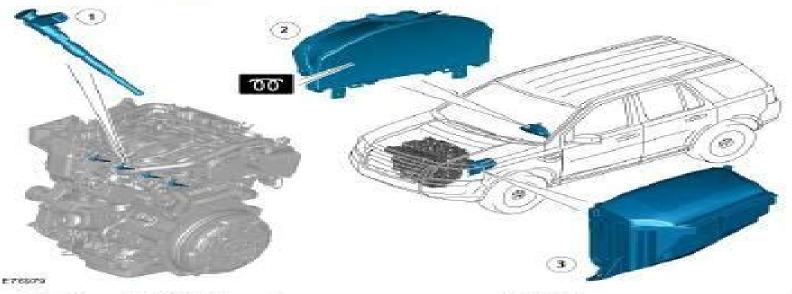
Published: 11-May-2011

Glow Plug System - Glow Plug System

COMPONENT LOCATION



Theories 1	Part Number	Description	·
	Parameter State of the Parameter of the	Clow plugs	
200		Glow plug warning indicator lamp	
33 3		BIB	

OVERVIEW

A glow plug is installed in the inlet side of each cylinder, to heat the combustion chambers before and during cranking. This aids cold starting, reduces emissions and engine noise when idling from a cold engine.

A writing harmess on each bank of glow plugs is connected to a separate relay and fusible link in the BIB (battery junction box). Each glow plug is grounded through its fixing in the cylinder head. Operation of the glow plug relays is controlled by the ECM, which also controls the illumination of the glow plug indicator in the instrument duster.

Each glow plug is a tubular heating element which contains a spiral filement encased in magnesium colds powder. At the tip of the tubular heating element is the heater cell. Behind the heater cell, and connected in series, is a control cell. The control cell requisites the current to the heater cell to safegued against overheating.

OPERATION

There are three phases of glow plug heating: Fre heating, crank heating and post heating. The ECM (engine control module) determines the heating times from the ECT (engine coolant temperature). The lower the ECT (engine coolant temperature), the longer the heating times.

When the ignition switch is switched to mode II, the ECM (engine control module) calculates any required heating times and, if heating is required, energizes the glow plug relays in the SIB (bettery junction box). When per heating is required, the ECM (engine control module) also sends a message to the instrument duster, on the high speed CAM (controller area retwork) but, to request illumination of the glow plug industor. The glow plug industor remains illuminated for the duration of the pre heating phase, or until the lightion switch is turned to the crank position, whichever occurs first. If required, the ECM (engine control module) keeps the glow plug relays energized during cranking and for the duration of any post heating phase.

The ECM (engine control module) monitors the drive circuit of the glow plug relays for plausibility of operation, continuity, and short and open circuits. If a fault is detected, the ECM (engine control module) stores a related fault code and permanently illuminates the glow plug indicates while the spiriton switch is in mode II.

CONTROL DIAGRAM

Freelander 2 Repair Manual Lock

John Haynes

Freelander 2 Repair Manual Lock:

Car and Driver ,2002 Autocar, 2003 Drum .2001 **The Advocate** ,2003-12-09 The Advocate is a lesbian gay bisexual transgender LGBT monthly newsmagazine Established in 1967 it is the oldest continuing LGBT publication in the **Worldwide Automotive Supplier Directory** ,2002 **United States** The Spectator, 2003 Automotive News, Service manual Jerry Levine, 1989 Paperbound Books in Print .1984 Books in Print .1982 Service Manual. Operation and Maintenance Manual for Calcasieu Lock United States. Army. Corps American Car Locks J. I. Levine, 1982 Ford Ranger and Bronco II 1983 thru 1992 John Haynes, 1989-07-21 Haynes of Engineers. New Orleans District, 1970 disassembles every subject vehicle and documents every step with thorough instructions and clear photos Haynes repair manuals are used by the pros but written for the do it yourselfer Ford Ranger & Bronco II Homer Eubanks, John Harold Haynes, 1989 Models covered Ranger pick ups and Bronco II s 1983 thru 1989 Chilton's Ford ,1991 Ford Pick-ups & Bronco Automotive Repair Manual Mark Christman, John B. Raffa, John Harold Haynes, 1996 Haynes disassembles every subject vehicle and documents every step with thorough instructions and clear photos Haynes repair manuals are used by the Falcon Fairlane LTD Ford Motor Company of Australia, 1993 pros but written for the do it yourselfer Operation and Maintenance Manual, Canaveral Lock, Brevard County, Florida United States. Army. Corps of Engineers. Jacksonville Chilton's Ford Pick-Ups/Expedition/Navigator 1997-03 Repair Manual Eric Michael Mihalyi, Jay District.1971 Storer, 2007-05-09 Covers U S and Canadian models of Ford F 150 1997 thru 2003 and F 250 Pick ups 1997 thru 1999 Ford Expedition 1997 thru 2002 and Lincoln Navigator 1998 thru 2002 2 and 4 wheel drive gasoline engines Does not include diesel engine F 250HD Super Duty F 350 or information specific to Lightning models Ford Pick-Ups and Expedition Lincoln Navigator Automotive Repair Manual Jay Storer, John H. Haynes, 2007 Haynes manuals are written specifically for the do it yourselfer yet are complete enough to be used by professional mechanics Since 1960 Haynes has produced manuals written from hands on experience based on a vehicle teardown with hundreds of photos and illustrations making Haynes the world leader in automotive repair information

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