

SERVICE INFORMATION

LAND-ROVER PETROL AND DIESEL MODELS



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Rover
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Item 1

SUBJECT: ALTITUDE COMPENSATION FOR FUEL INJECTION PUMP

MODEL: Land-Rover Series III, 2½ litre diesel.

OBJECTIVE: To draw attention to the necessity of re-adjustment of the DPA pump when the above model is to be operated at high altitude.

REMARKS: When vehicles equipped with diesel engines are operated at high altitude it is recognised that the reduced air density causes a reduction in the weight of air drawn into the engine cylinders, which results in incomplete combustion of the injected fuel at full throttle, unless this is reduced in proportion to the reduction in air density.

To compensate for these variations and to avoid excessive fuel consumption, accompanied by excessive exhaust smoke, the amount of fuel delivered to the cylinders must be reduced to suit the conditions under which the engine is required to operate, by de-rating the fuel pump delivery at a value of 3% per 330 metres (1,000 feet) of altitude operation.

Should you be aware of any owners of the above model contemplating vehicle operation at high altitude, we recommend that they are advised of the necessary distributor pump adjustment which may be carried out by a CAV Dealer, by arrangement, prior to their journey.

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Item 1A

SUBJECT: TIMING OF D.P.A. INJECTION PUMP (HOME MARKET)

MODELS: Land-Rover Series III, 2½ litre diesel.

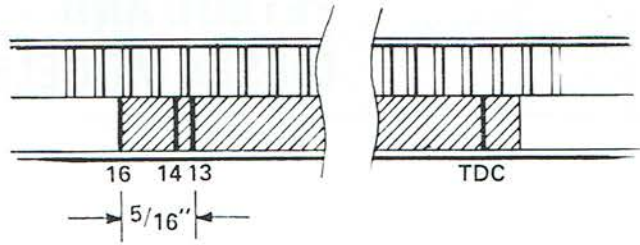
OBJECTIVE: To add 13 degrees timing mark to earlier flywheels.

LITERATURE AFFECTED: Land-Rover Series III Repair Operation Manual (English) Part No. 607314, Operation 19.30.07.

REMARKS: To conform to the Department of the Environment legal requirements specified in British Standard BF AU 141, re certification of diesel engines for horse power rating and smoke level, the fuel injection timing has been changed from 14 deg BTDC to 13 BTDC. Timing marks on the latest flywheels have been modified accordingly to read 13/14 deg. In the case of stocks of earlier replacement flywheels, which are marked 14/16 deg a 13 deg mark should be added prior to fitting. The illustration shows a practical way of locating the position.

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Fig. 1 Additional flywheel timing mark

A —13 deg position measured peripherally from 16 deg mark

Note: The latest Distributor pump timing is described in 'Routine Maintenance' in the current Land-Rover Series III, Owner's Manual (English) Part No. 607324.