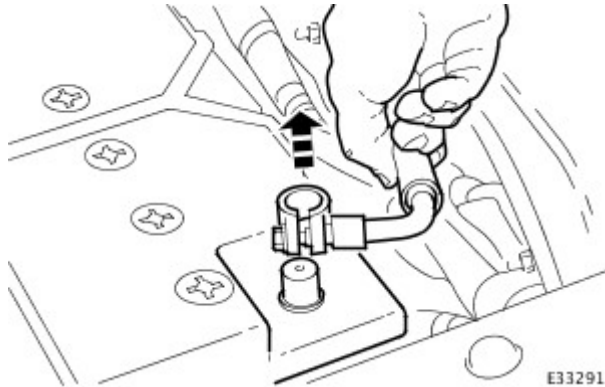


Generator and Regulator - Generator 4.0L NA V8 - AJ27/3.2L NA V8 - AJ26

Removal and Installation

Removal



1. Disconnect the battery ground cable.

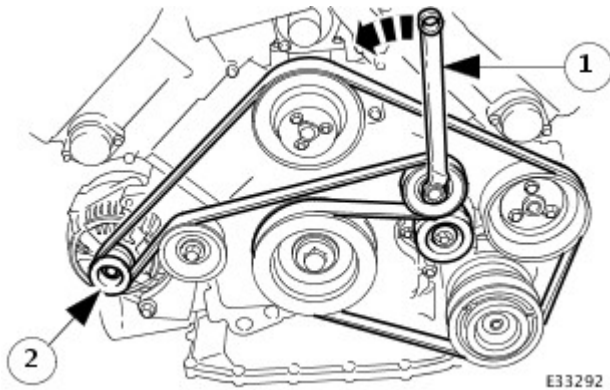
- Remove the battery cover.

2. Remove the air cleaner assembly (including fit body paintwork protection sheets to the adjacent working area); refer to operation 19.10.05.

3. Remove the twin fan and motor assembly from behind the radiator; refer to operation 26.25.12.

4. Check that the belt wear indicator is within the limit marks.

5. Remove the drive belt from the generator and accessory drive,



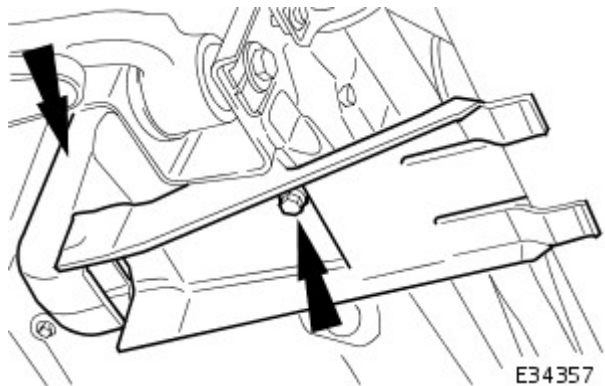
1. Use a spanner e.g. Churchill JD-230 or Snap On XDHM 1415, on the centre bolt of the belt tensioner idler pulley, to turn the adjuster assembly to the left against spring tension.

2. Whilst holding the tensioner against spring tension, remove the drive belt from the generator pulley. Release the tensioner slowly and remove the spanner.

- Disconnect the belt from the other pulleys, as necessary, to move it clear of the generator.

6. Raise the vehicle on a ramp; refer to Section 100-02

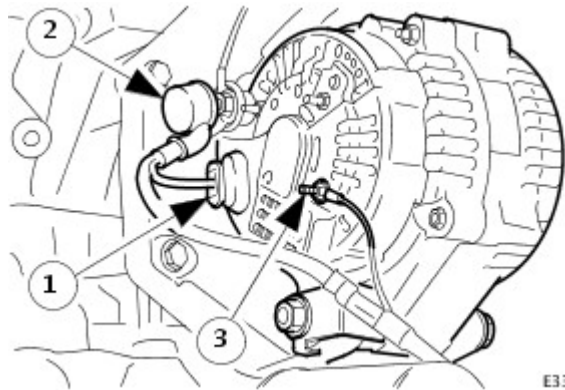
7. Remove the air intake ducting from the generator. The ducting comprises two sections; the upper section is retained by two screws to the sump body assembly and the lower (horizontal) section is retained by one screw.



8. Disconnect the generator harness.

1. Disconnect the harness multi-plug.

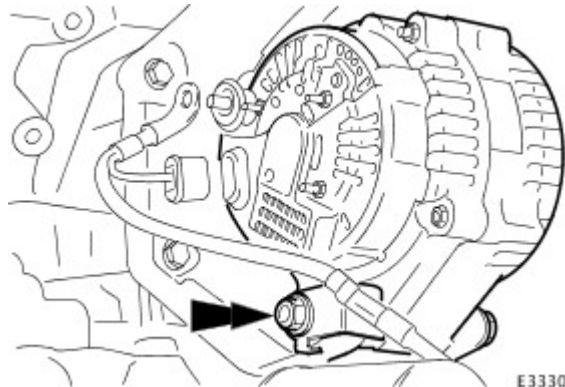
2. Remove the protective boot from the positive terminal, remove the terminal nut and disconnect the cable from the terminal. Where fitted, disconnect the



E33295

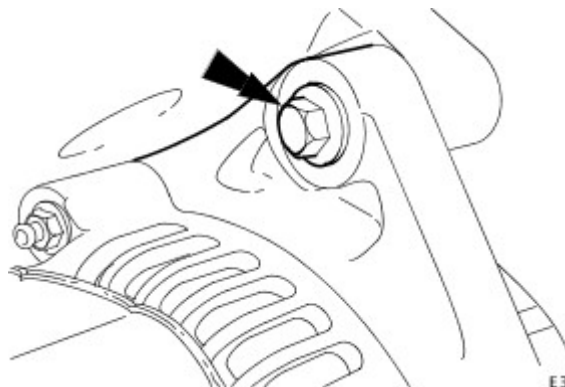
suppression module positive cable from the positive terminal.

3. Where fitted, remove the nut which secures the suppression module negative cable and disconnect the cable from the generator. Reposition the suppression module harness clear of the generator.



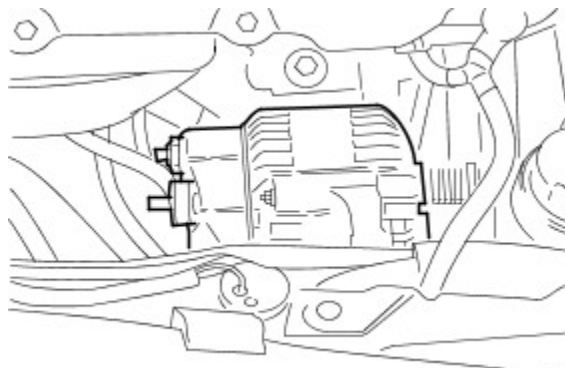
E33307

9. Remove the lower mounting bolt and reposition the harness mounting bracket.



E33290

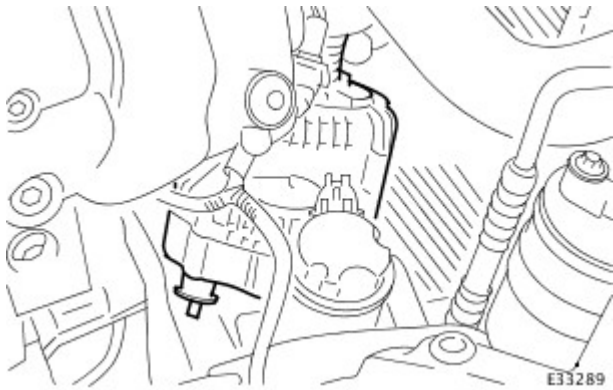
10. Remove the upper securing bolt and withdraw the generator from the mounting bracket.



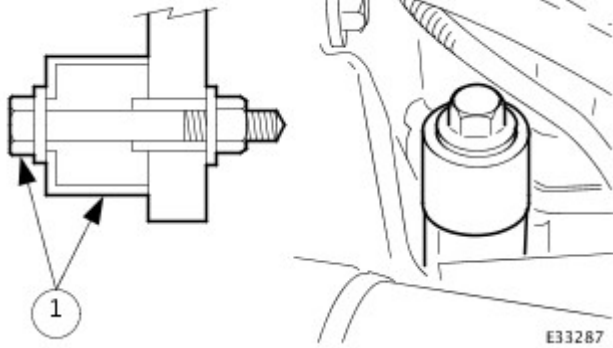
E33288

11. Carefully, manoeuvre the generator forward towards the radiator.

12. Change the position of the generator and remove it upwards between the engine and the radiator.



13. Move the spacing bush rearwards slightly in the generator mounting bracket, to ease fitting the new generator.

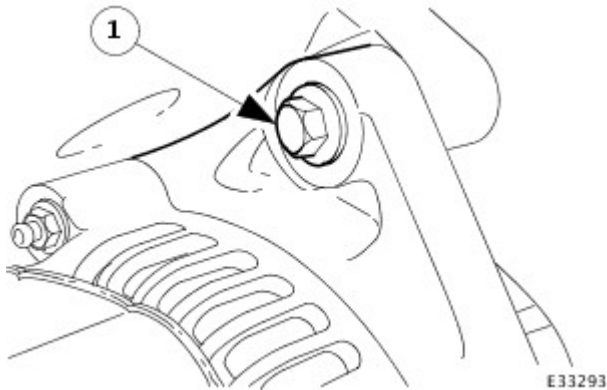


1. Position a suitable length bolt through the bush, fit a tubular spacer or socket spanner, fit a nut and tighten the assembly to move the bush slightly. Remove the nut, bolt and spacer.

Installation

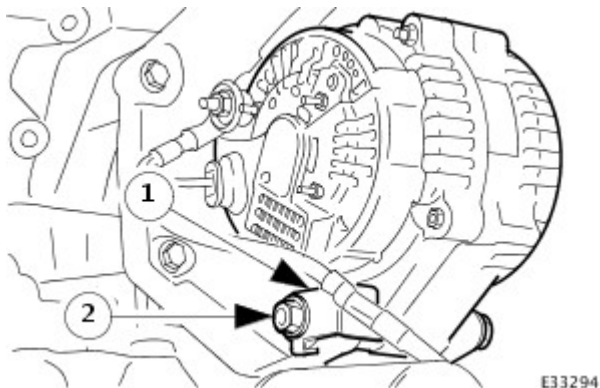
1. Fit the generator to the engine.

1. From above, position the generator and fit the upper mounting bolt and nut, but do not fully tighten.



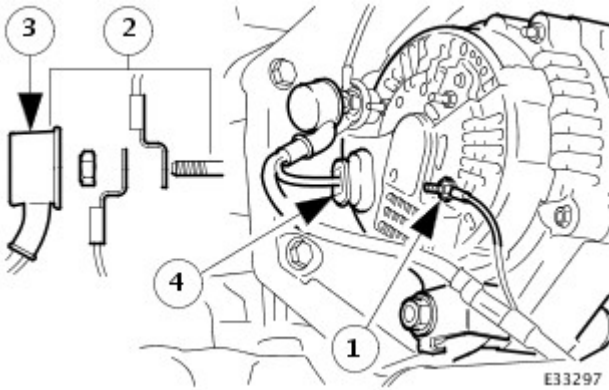
2. Fit the generator lower mounting.

1. From below, reposition and align the harness clip to the generator lower mounting.
2. Fit the lower mounting bolt and nut, tighten to 38-48 Nm.

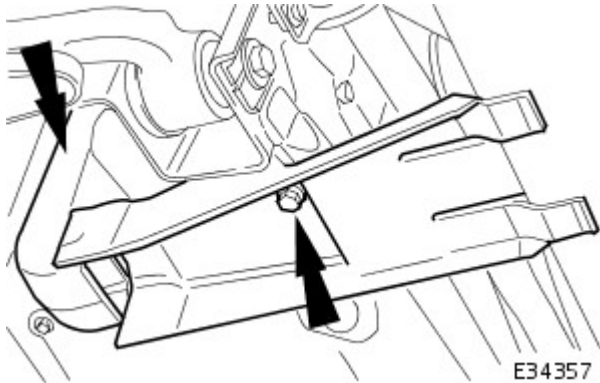


3. Connect the harness.

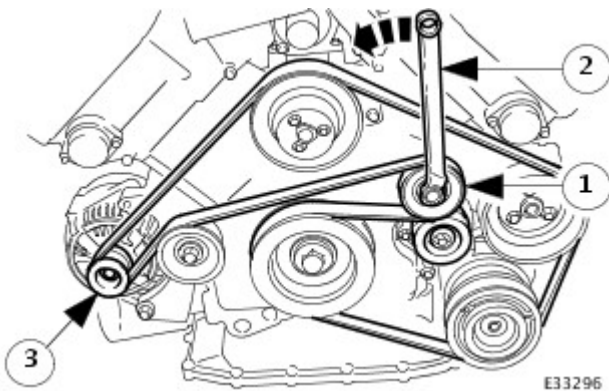
1. Reposition the suppression module harness and connect the negative cable to the generator negative terminal. Fit and tighten the terminal nut.



2. Secure the suppression module positive cable and main positive cable to the generator positive terminal.
3. Fit the boot to the terminal.
4. Reconnect the generator harness multi-plug.



4. Refit the air intake ducting to the generator. The upper section is retained by two screws to the sump body assembly and the lower (horizontal) section is retained by one screw.



5. Lower the vehicle on the ramp; refer to Section 100-02.
6. Fully tighten the generator upper mounting bolt, to 18-24 Nm.
7. Refit the drive belt to the generator.
 1. Pass the drive belt around the idler pulley.
 2. Using spanner (Churchill JD-230 or Snap On XDHM 1415) on the centre bolt of the belt tensioner idler pulley, rotate the adjuster against spring tension.
 3. Whilst holding the tensioner against spring tension, pass the drive belt over the generator pulley and check that it is correctly located on the other pulleys. Release the tensioner slowly and remove the spanner. Check the alignment of the belt.
8. Refit the fan and motor assembly; refer to Operation 26.25.12.
9. Refit the air cleaner assembly; refer to Operation 19.10.05.
10. Reconnect the battery ground cable and fit the battery cover. Reset the radio information and the clock.