REMOVAL - REFITTING : FLEXIBLE ANCILLARY DRIVE BELT (WITHOUT AIR CONDITIONING COMPRESSOR) :

WITHOUT AIR CONDITIONING AND DV4TD TURBO DIESEL OR WITHOUT AIR CONDITIONING AND DV6ATED4 TURBO DIESEL OR WITHOUT AIR CONDITIONING AND DIESEL TURBO DV6TED4 FAP

1. Recommended tools

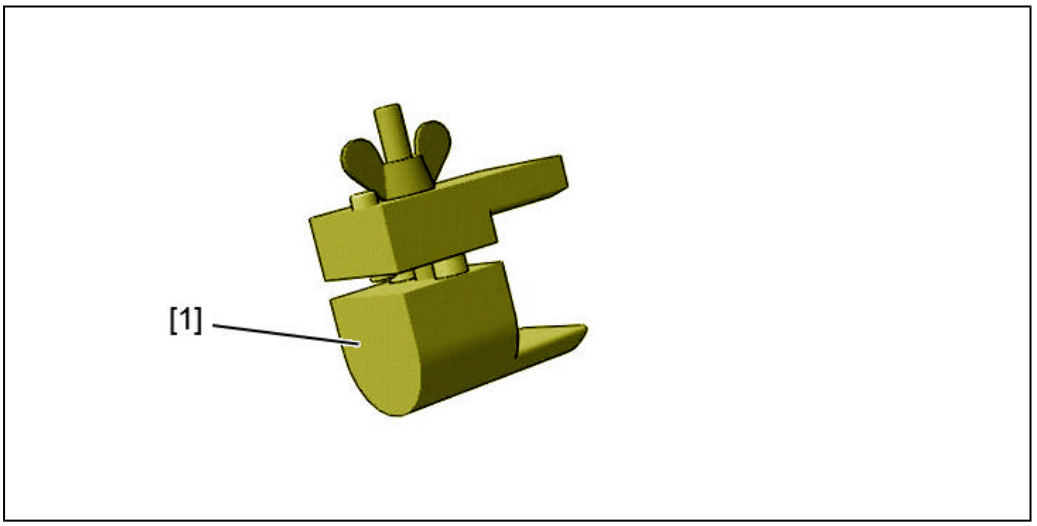


Figure : E5AP2N8D

[1] Flexible ancillary drive belt fitting tool (-).0194-3A .

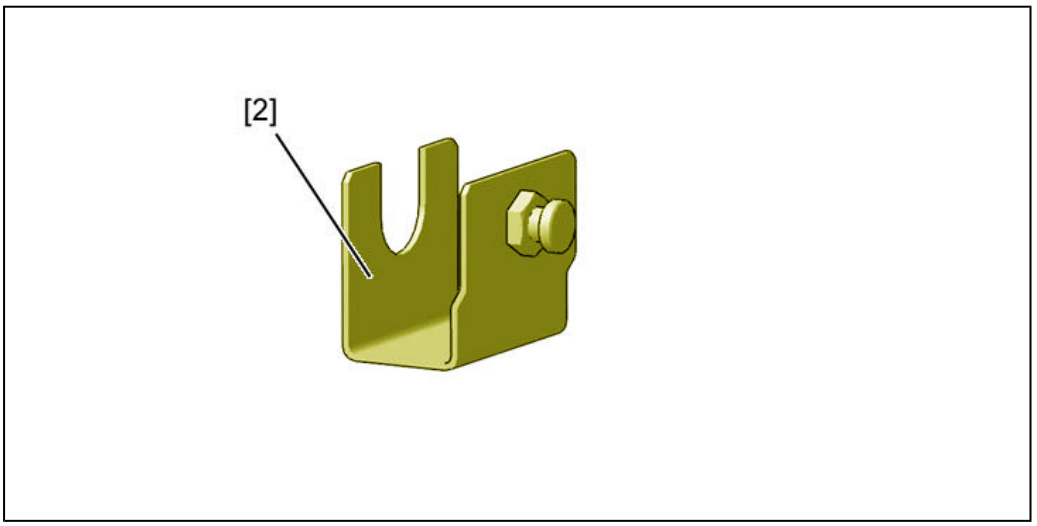


Figure : E5AP2NAD

[2] Flexible ancillary drive belt retaining clip (-).0194-3B .

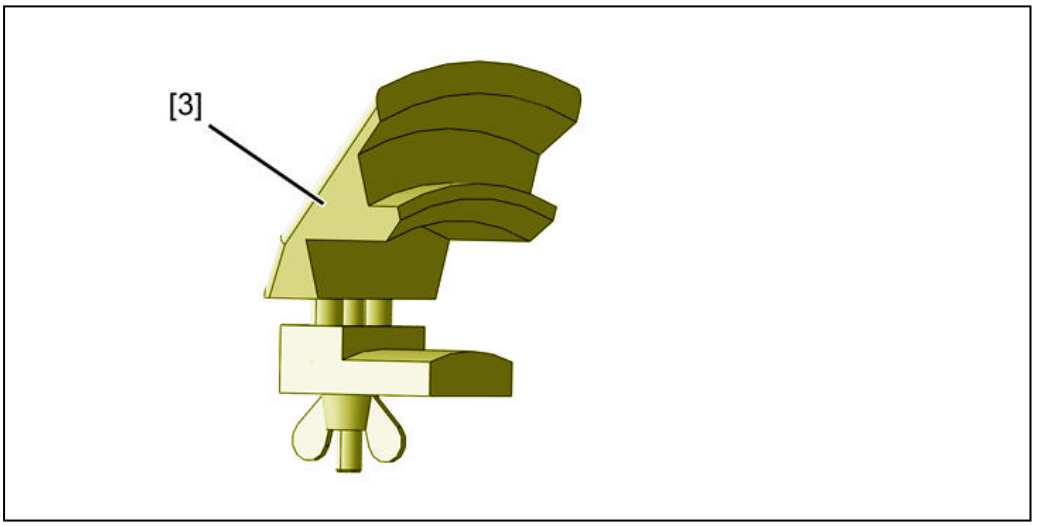


Figure : E5AP2QKD

[3] The flexible ancillary drive belt removal tool (-).0194-3D .

2. Removal

N.B. : After the ignition has been switched off : Wait 15 minutes before disconnecting the battery to ensure that the programmed values of the various ECUs are stored .

Disconnect the battery .
Lift and support the vehicle with front wheels suspended .
Remove :

- The front right-hand wheel
- The engine undershield
- The front right mud shield

URGENT : Before removal and for any future reuse of the removed belt, the engine must be at ambient temperature (below 30 °C) ; In all other cases : Replace the ancillary drive belt .

N.B. : Removal while the engine is warm results in irreversible and imperceptible damage to the flexible ancillary drive belt .

N.B. : If the belt is to be re-used mark the direction of rotation (Before removal) .

URGENT : In the event of replacement : Cut and remove the flexible ancillary drive belt .

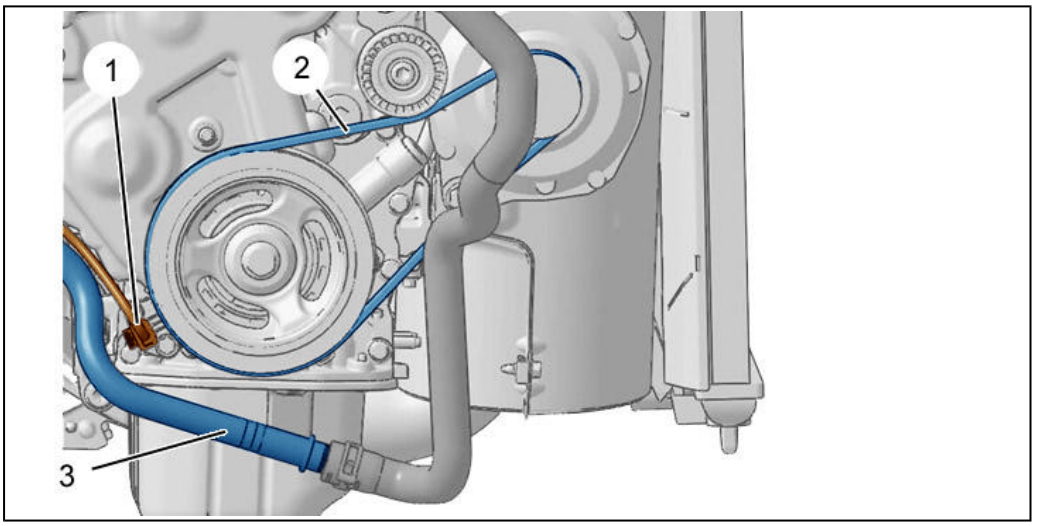


Figure : B1BP3F6D

URGENT : Disconnect and move aside the engine speed sensor (1) .

Unclip and move aside the cooling system pipe (3) .

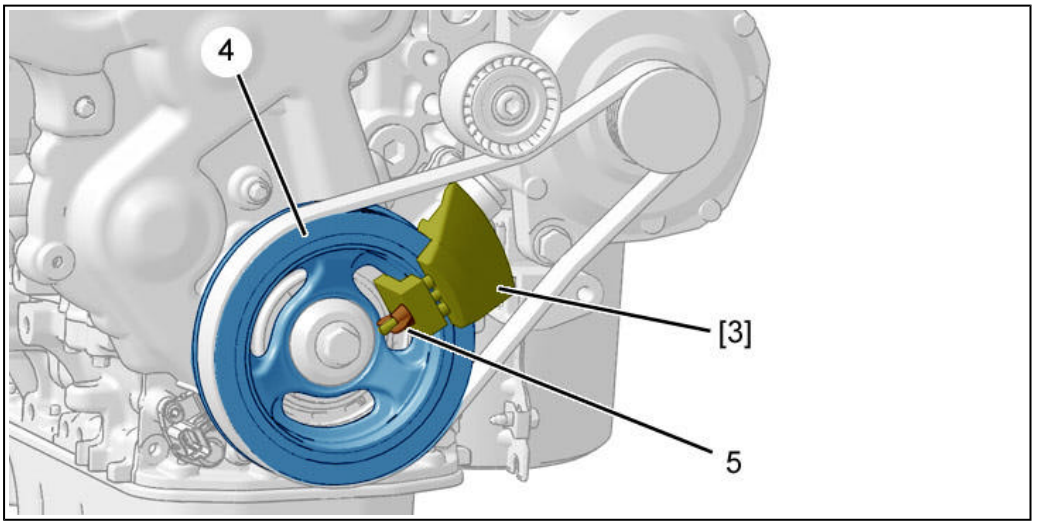


Figure : B1BP3JAD

Position the tool [3] on the crankshaft pulley centring it on the casting gap .
Tighten the wing nut (5) .

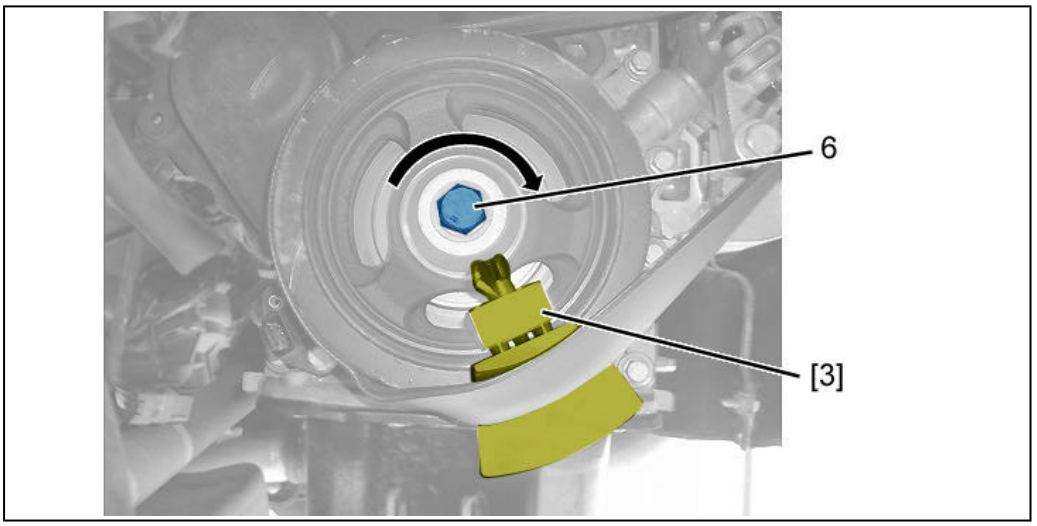


Figure : B1BP3JBD

Turn the crankshaft pulley (4) clockwise using the bolt (2) until the flexible ancillary drive belt is removed completely, then until the tool disengages .

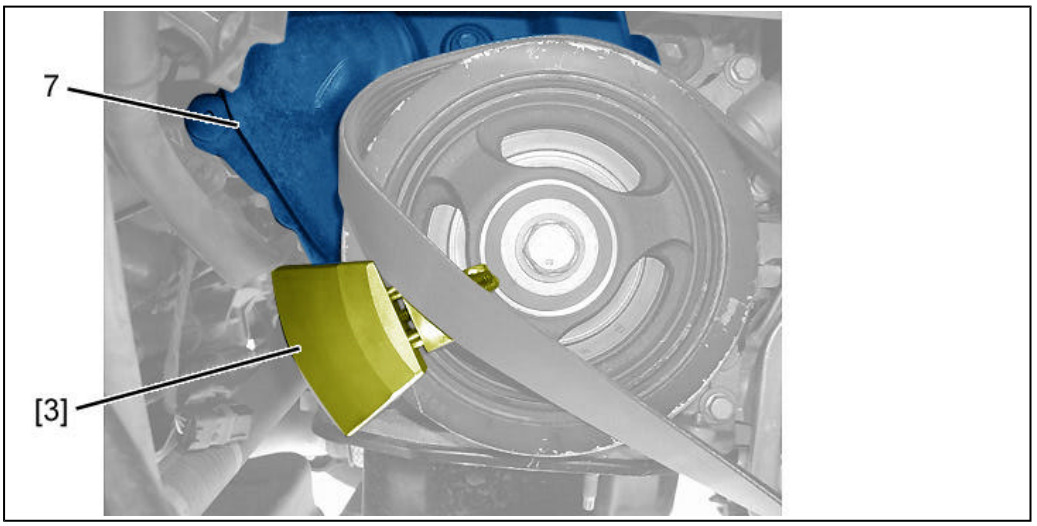


Figure : B1BP3JCD

URGENT : Following disengagement of the tool [3], stop the rotation of the crankshaft pulley (4) to prevent the tool from fouling the timing cover .

Remove :

- The flexible ancillary drive belt (2)
- The tool [3]

3. Refitting

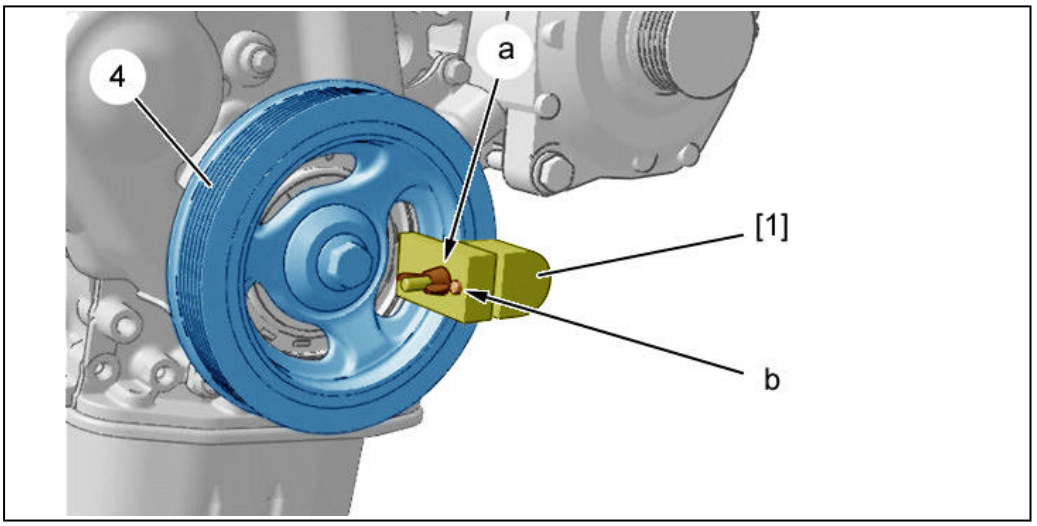


Figure : B1EP1JXD

Position the tool [1] on the crankshaft pulley centring it on the casting gap .

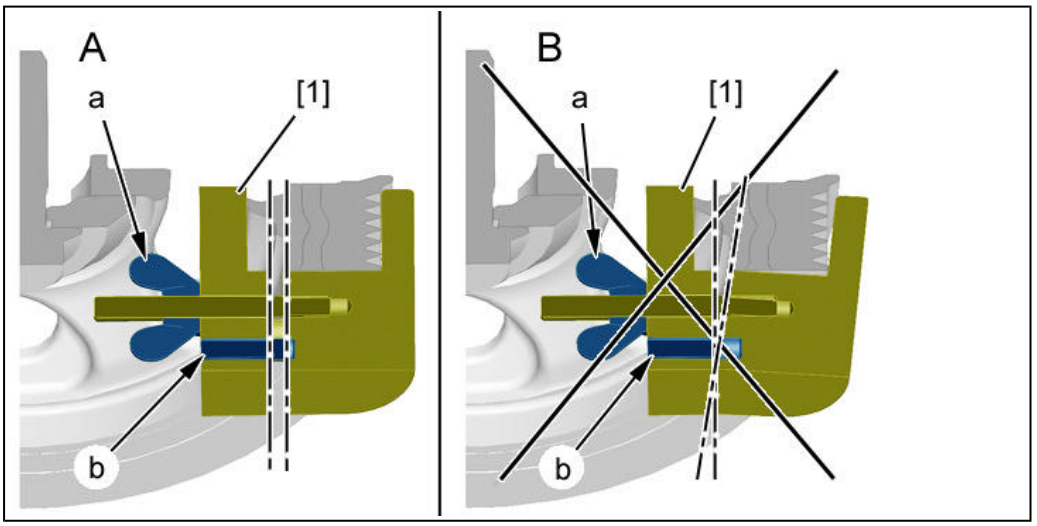


Figure : B1EP1QXD

"A" : Correct fitting .
"B" : Incorrect fitting .
Tighten the wing nut "a" observing the parallelism between the faces of the 2 components of the tool [1] .
Tighten the bolt "b" to cancel out the twisting effect of the tool [1] when fitting the flexible ancillary drive belt (2) .

N.B. : If the faces are not parallel, the flexible ancillary drive belt will not be positioned correctly in the Vs of the crankshaft pulley and the alternator pulley ; Therefore, the damage to the belt always results in the flexible ancillary drive belt being rendered useless after a few kilometres .

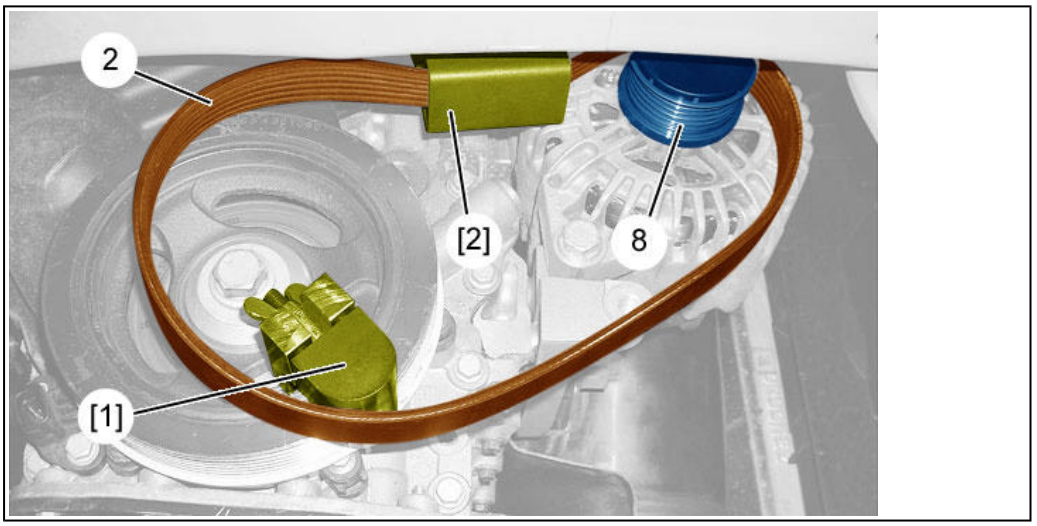


Figure : B1BP3JDD

Position the flexible ancillary drive belt (2) on the alternator (8) pulley .
Place the tool [2] on the flexible ancillary drive belt .

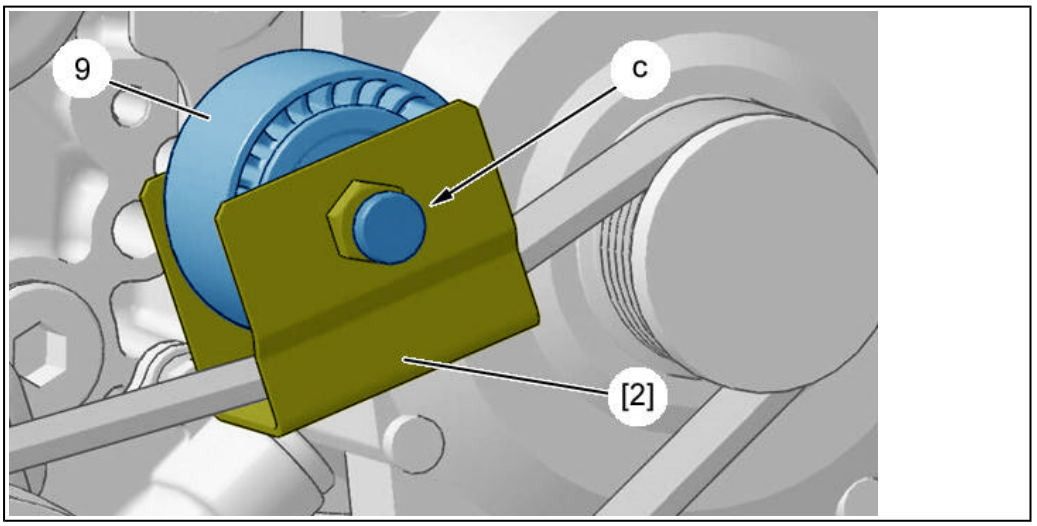


Figure : B1BP3JED

Position the tool [2] on the idler roller (9) imprisoning the flexible ancillary drive belt .
Tighten the bolt "c" of the tool [2] to insert it in the recess of the idler roller (9) fixing bolt head .

CAUTION : Check that the lower face of the tool [2] is parallel with the flexible ancillary drive belt .

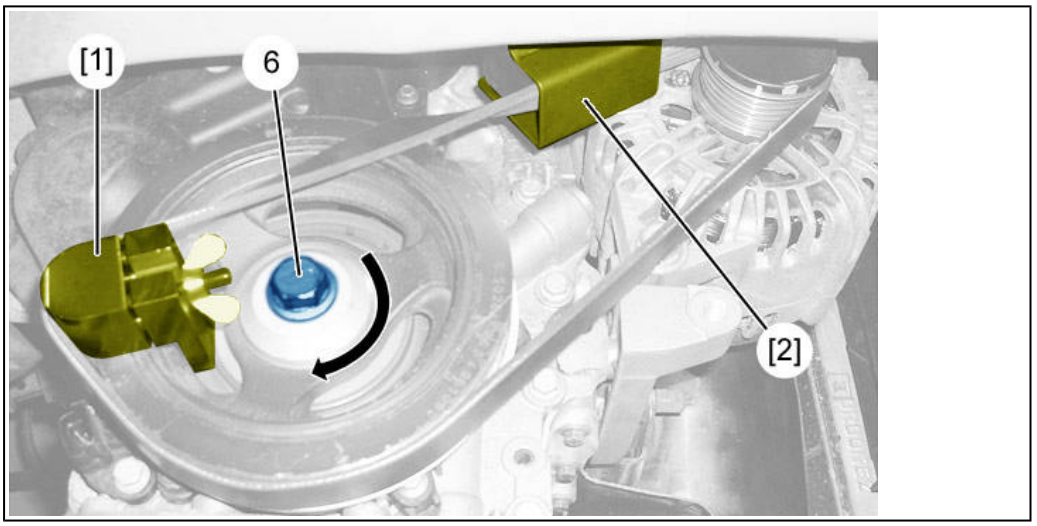


Figure : B1BP3JFD

URGENT : Ensure that the flexible ancillary drive belt (2) is positioned correctly in the "V"s of the crankshaft pulley (4) and the alternator .

Turn the crankshaft pulley clockwise using the bolt (6) until the flexible ancillary drive belt (2) is fitted completely on the crankshaft pulley (4) and until the tool [1] disengages .
Remove :

- The tool [1]
- The tool [2]

Rotate the crankshaft 2 through revolutions clockwise to guarantee the positioning of the flexible ancillary drive belt on the idler roller (9) .
Clip the cooling system pipe (3) .
Reconnect the engine speed sensor (1) .
Fit :

- The front right mud shield
- The engine undershield
- The front right-hand wheel

Connect the battery .