REMOVAL - REFITTING : FLEXIBLE ANCILLARY DRIVE BELT (WITH AIR CONDITIONING COMPRESSOR) :

SINGLE AIR CONDITIONING AND DIESEL TURBO DV6TED4 FAP OR AUTOMATIC AIR CONDITIONING AND DV6ATED4 TURBO DIESEL OR AUTOMATIC AIR CONDITIONING AND DIESEL TURBO DV6TED4 FAP OR SINGLE AIR CONDITIONING AND DV4TD TURBO DIESEL OR AUTOMATIC AIR CONDITIONING AND DV4TD TURBO DIESEL OR SINGLE AIR CONDITIONING AND DV6ATED4 TURBO DIESEL

1. Recommended tools

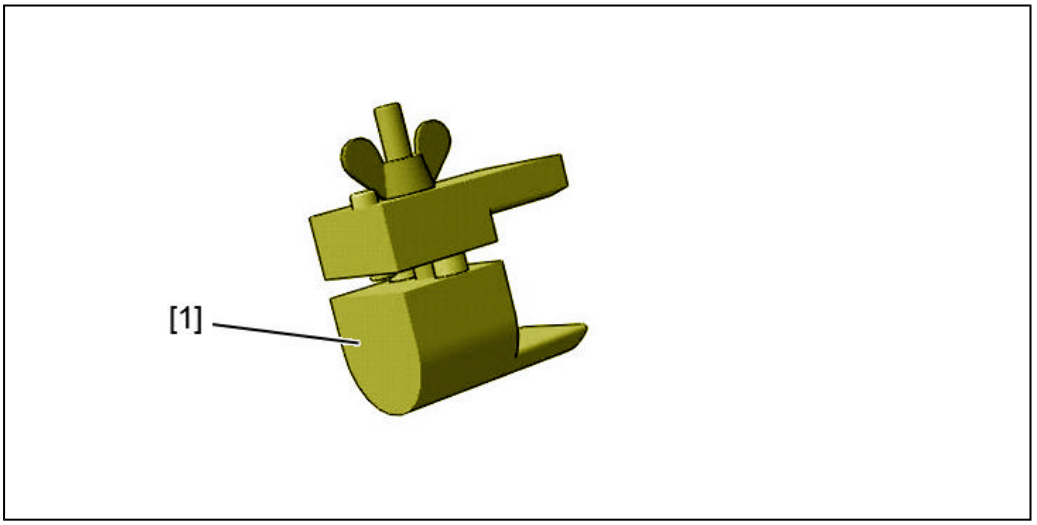


Figure : E5AP2N8D

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

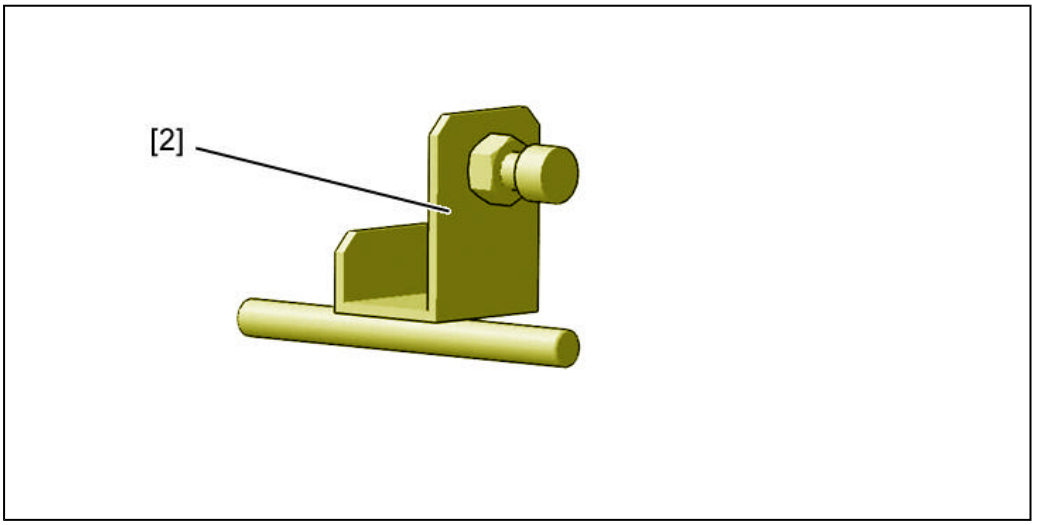


Figure : E5AP2N9D

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

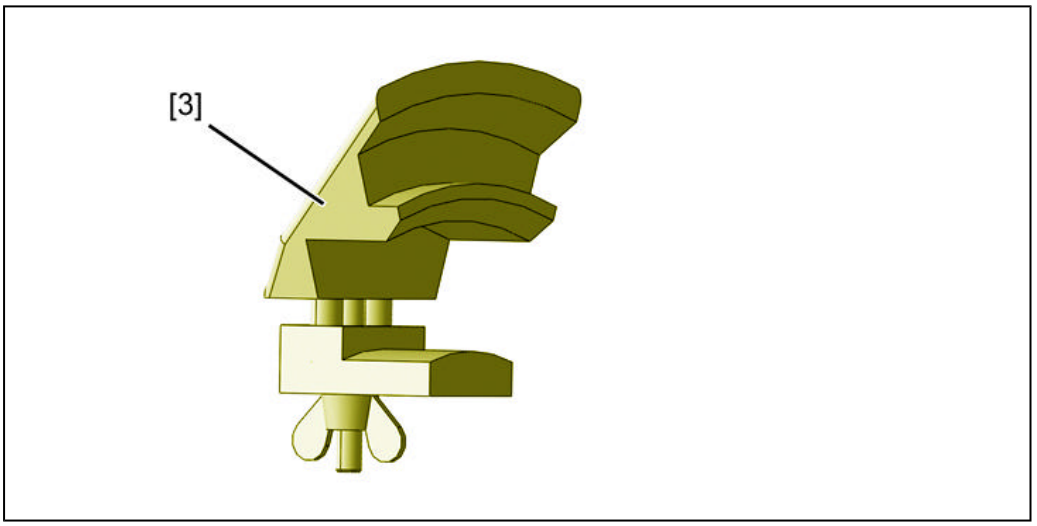


Figure : E5AP2QKD

[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 .

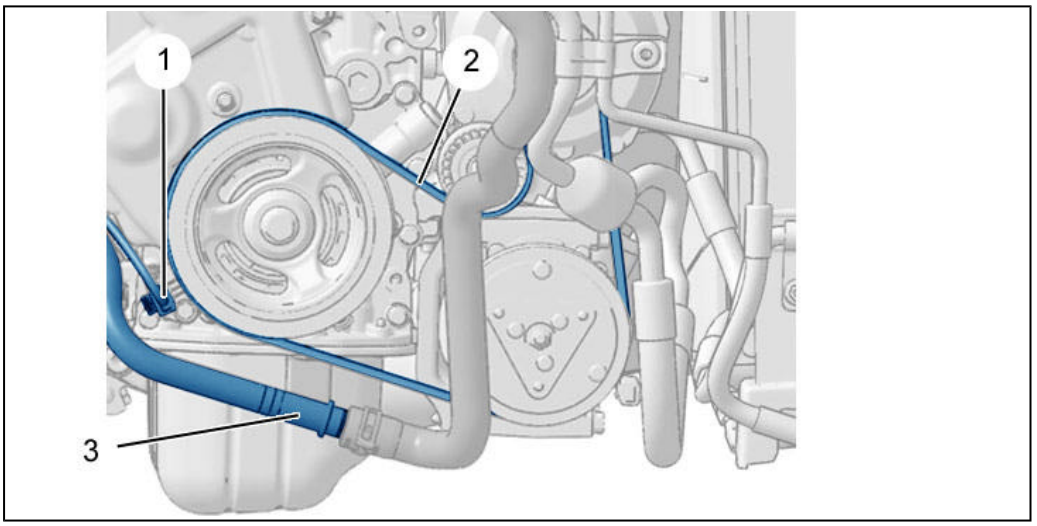


Figure : B1BP3F3D

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

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

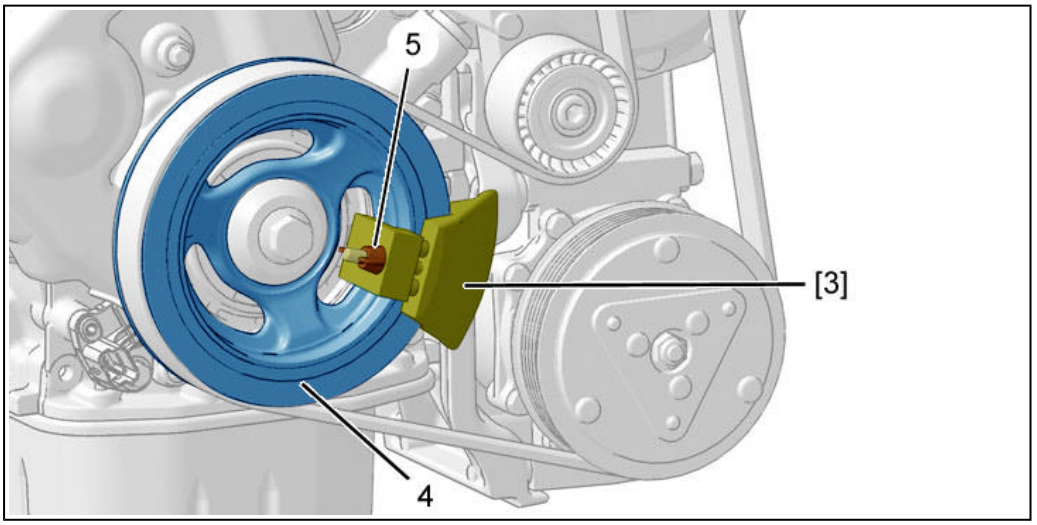


Figure : B1BP3JHD

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

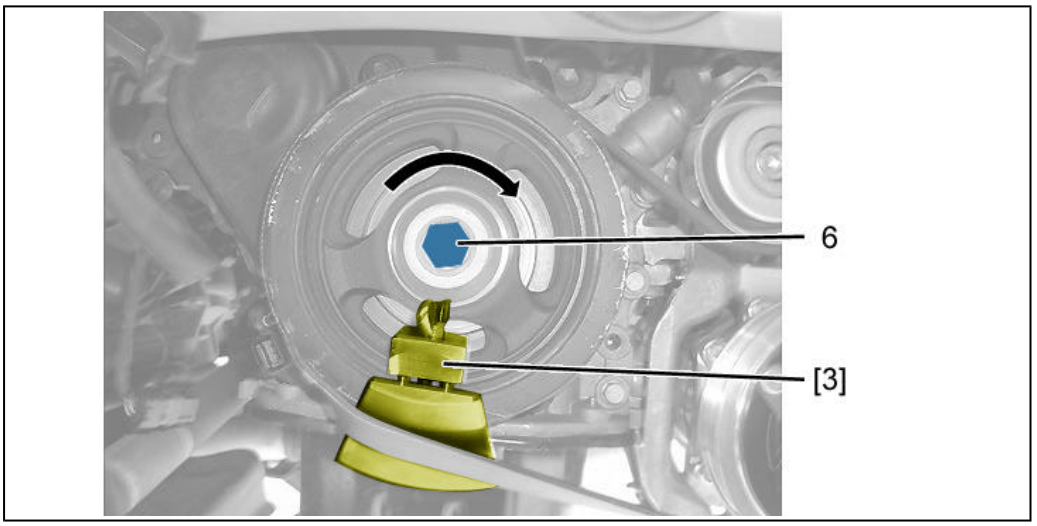


Figure : B1BP3JJD

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

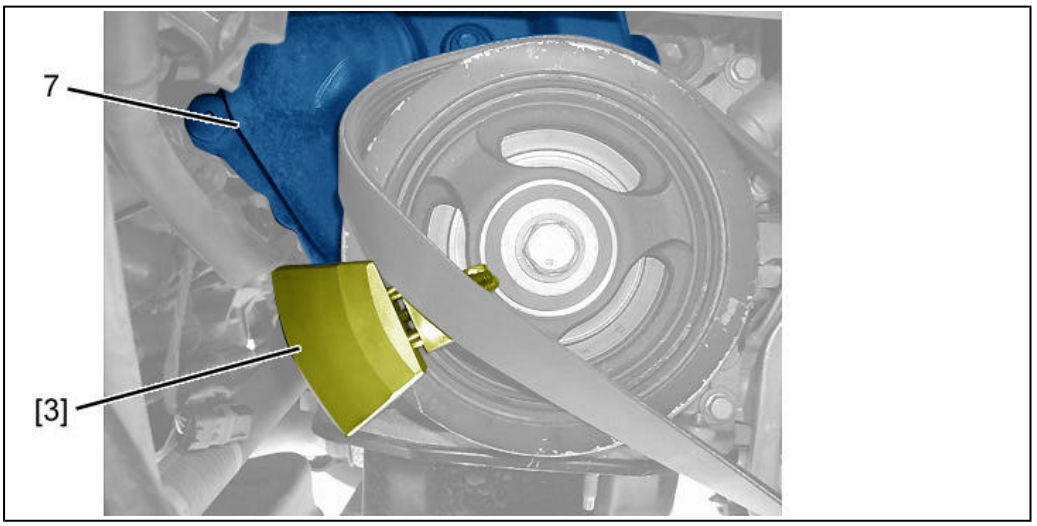


Figure : B1BP3JCD

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

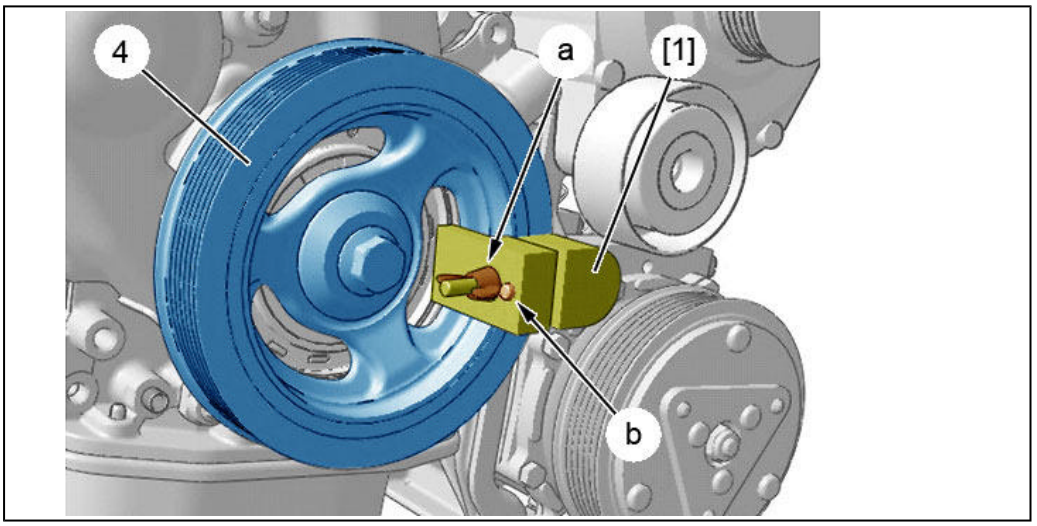


Figure : B1EP1JTD

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

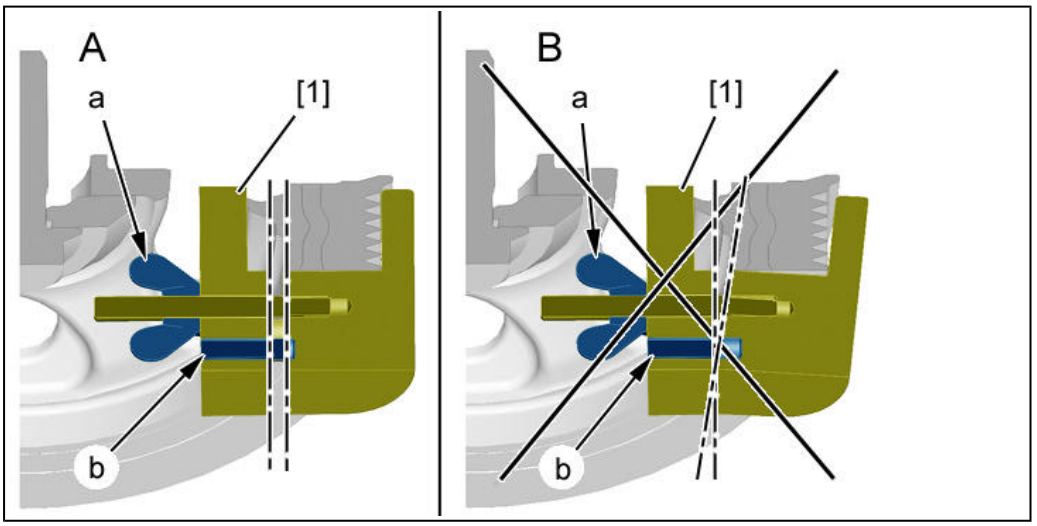


Figure : B1EP1QXD

"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 .

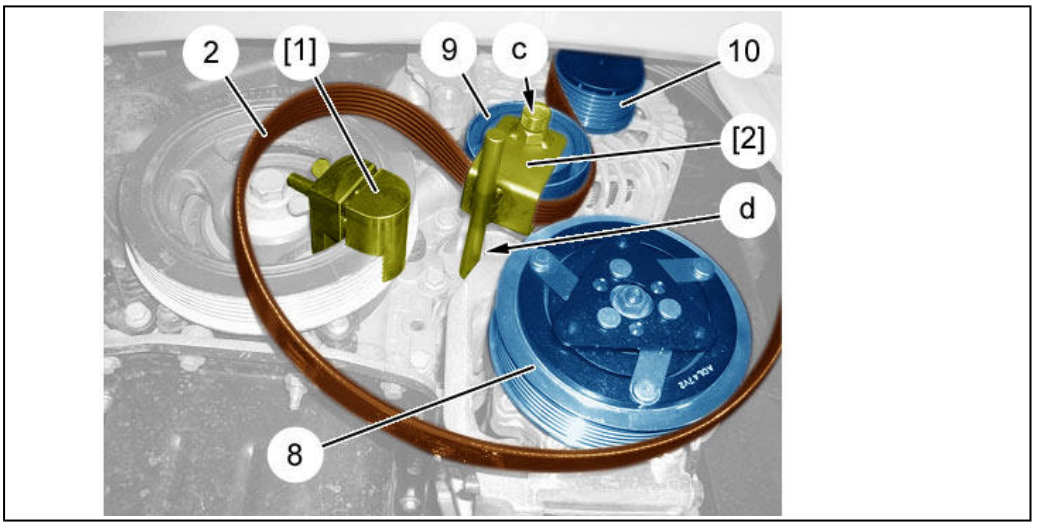


Figure : B1BP3JKD

Position :

- The flexible ancillary drive belt (2) on the alternator pulley (10) and the air conditioning compressor pulley (8)
- The tool [2] on the idler roller imprisoning the flexible belt (2)

Ensure that the flexible ancillary drive belt "c" is positioned correctly in the "V"s of the crankshaft pulley and the alternator (9) .

CAUTION : Check the positioning of the tool [2] and its support at "d" on the air conditioning compressor support .

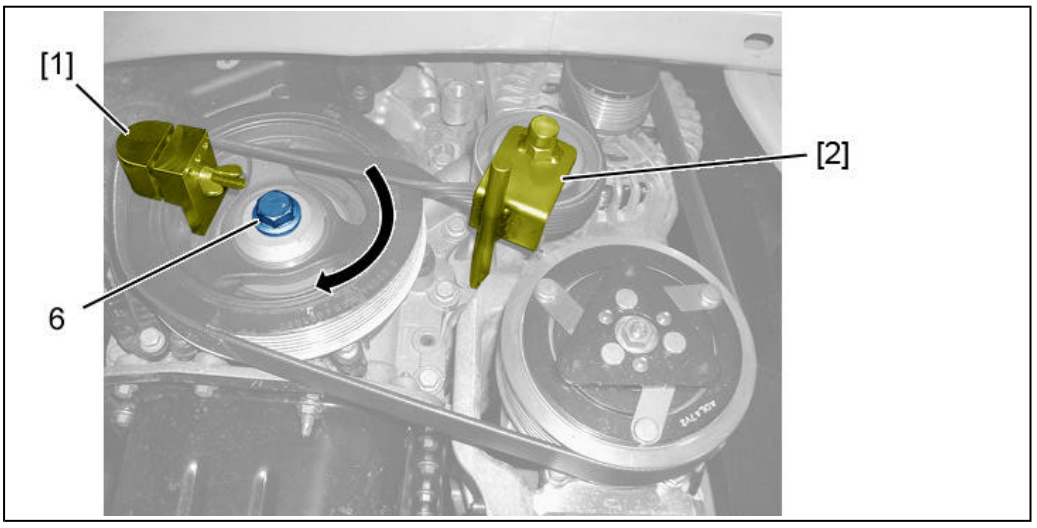


Figure : B1BP3JLD

URGENT : Ensure that the flexible ancillary drive belt (2) is positioned correctly in the Vs of the crankshaft pulley (4), the alternator pulley and the air conditioning pulley .

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 (2) 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 .