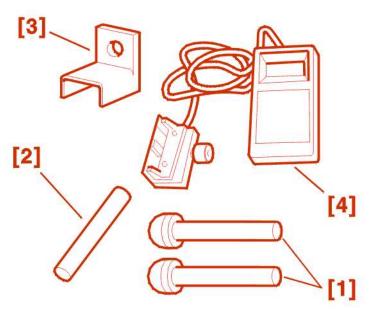
B1CJ0EK1 - 406D9 XU7JP4 ENGINE XU10J4R ENGINE

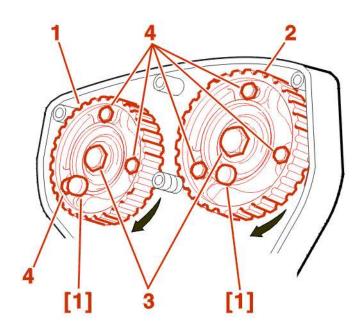
REASSEMBLY 16 VALVE ENGINE(S) - (TIMING)

1 - SPECIAL TOOLS



reference	description	reference	reference
	camshaft hub setting rods (XU10J4 engine)	(-).0153-AB (-).0153-M	9041 - T.Z 7004 - T.M
[2]	crankshaft setting rod	(-).0153-G	7004 - T
[3]	flywheel stop	(-).0153-AF	-
[4]	tension measuring equipment	SEEM	SEEM

2 - REASSEMBLY



Fit:

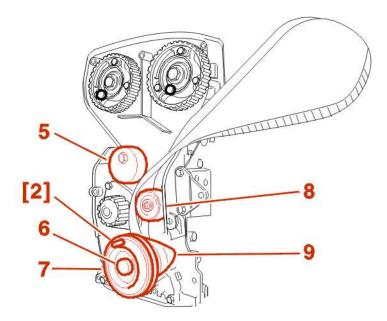
• the camshaft pulleys (1) and (2)

Set the hubs (3) using tools [1].

Lightly tighten the bolts (4) by hand to obtain:

- correct seating without play between the pulley and the hub (3)
- free rotation of the pulley on its hub (3)

Move the pulleys (1) and (2) against the ends of the slots by turning them in the direction of engine running.



Check that the rollers (5) and (8) turn freely (no play and no tight spots).

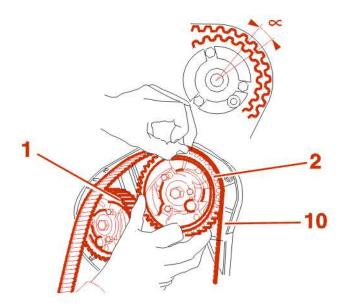
Fit the belt on the crankshaft gear following the direction of fitting.

Fit:

- the casing (9)
- the pulley (7), by tightening bolt (6) pre-coated with LOCTITE FRENETANCH (tightening torque 13 da.Nm)

WARNING: never tighten the bolt (6) with the rod [2] in place (risk of damage); use the flywheel retainer [3].

Peg the crankshaft with the rod [2].



WARNING: ensure that during this operation the timing belt does not jump a tooth on the crankshaft gear.

Fit the timing belt, run (10) well tensioned, in the following order:

- crankshaft
- roller tensioner

Lay the timing belt on the pulley (2).

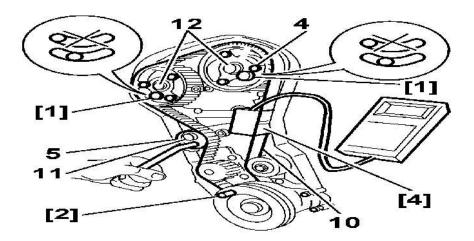
Turn the pulley carefully in the opposite direction to engine rotation to engage the belt on the pulley (2).

IMPERATIVE: the angular movement (\clubsuit) of the pulley in relation to the belt must not be more than one tooth space.

Proceed in the same way for the pulley (1).

Engage the belt on the roller tensioner and on the coolant pump gear.

3 - PRE-TENSIONING VALUE FOR FITTING THE TIMING BELT



Without removing the rods:

- fit the equipment [4] to the belt run (10) taking care it is not constrained by its surroundings
- turn the roller tensioner (5) anti-clockwise using the square drive until 45 SEEM units are displayed
- tighten the bolt (11) to 2 da.Nm. without altering the position of the roller
- by removing one bolt from each of the camshaft gears, check that the 6 bolts (4) are not against the ends of the slots

If they are, restart the fitting operation.

Tighten the 6 bolts (4) to 1 da.Nm..

Remove:

- the equipment [4]
- the pegs [2]-[1]

4 - BELT FITTING TENSION

IMPERATIVE: never turn the crankshaft in the reverse direction.

Turn the crankshaft two turns in the direction of running.

Peg the crankshaft with the rod [2].

Slacken the 6 bolts (4).

Lightly tighten the bolts (4) by hand to obtain:

- correct seating without play between the pulley and the hub (3)
- free rotation of the pulley on its hub

Peg the camshaft hubs with the rods [1] turning them a little by means of the bolts (12) (If necessary).

Slacken the bolt (8).

Proceed as for the timing belt pre-tensioning operation observing the following points:

- display 26 SEEM units
- tighten the bolt (11) to 2 da.Nm
- tighten the 6 bolts (4) to 1 da.Nm.

Remove:

- the equipment [4]
- the pegs [2]-[1]

5 - CHECKING BELT TENSION

IMPERATIVE: never turn the crankshaft in the reverse direction.

Turn the crankshaft two turns in the direction of running.

Fit the crankshaft setting rod (Using the tool [2]).

Slacken the 6 bolts (4).

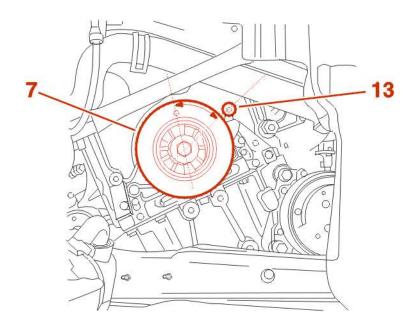
Lightly tighten the bolts (4) by hand to obtain:

- correct seating without play between the pulley and the hub (3)
- free rotation of the pulley on its hub

Peg the camshaft hubs with the rods [1] turning them a little by means of the bolts (12) (If necessary).

Tighten the bolts (4) to 1 daN.m.

Remove setting rods [2] and [1].



IMPERATIVE: never turn the crankshaft in the reverse direction.

Turn the crankshaft 1/4 turn(s) in the direction of running.

Move the pulley timing hole (7) until it is opposite the bolt (13).

Fit the equipment [4] on the run (10) taking care that it is not constrained by its surroundings.

The tension value should be between 32 and 40 SEEM units.

If this is not the case, restart the timing belt tensioning operation.

Refit the various components in the reverse order to removal.

Route and clip exactly as before.