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L1: length of the extension,

L2: length of the wrench.

Unless there are special instructions in the repair method, a universal joint (CARDAN joint type) should be used for measured tightening. Using a universal joint will result in a difference between the set torque of the wrench and the actual torque applied.

Before storing the wrench, loosen the adjustment spring completely. A wrench stored with a spring under tension will lose its tightening accuracy.

7. PRECAUTIONS WHEN USING ELECTRONIC TORQUE WRENCHES

An electronic torque wrench is a manual tightening tool. The tightening torque and, depending on the model, the angle is read directly.

When used following best practises, the accuracy of the tightness when using an electronic torque wrench is $\pm 5\%$.

Electronic torque wrenches are not affected by the position of the operator's hand.

It is advisable to handle the wrench with care and to stop tightening when the required value is displayed on the wrench.



Repair-00x01x02-02x01-1-1-1.xml



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TIMING ASSEMBLY: EXPLODED VIEW

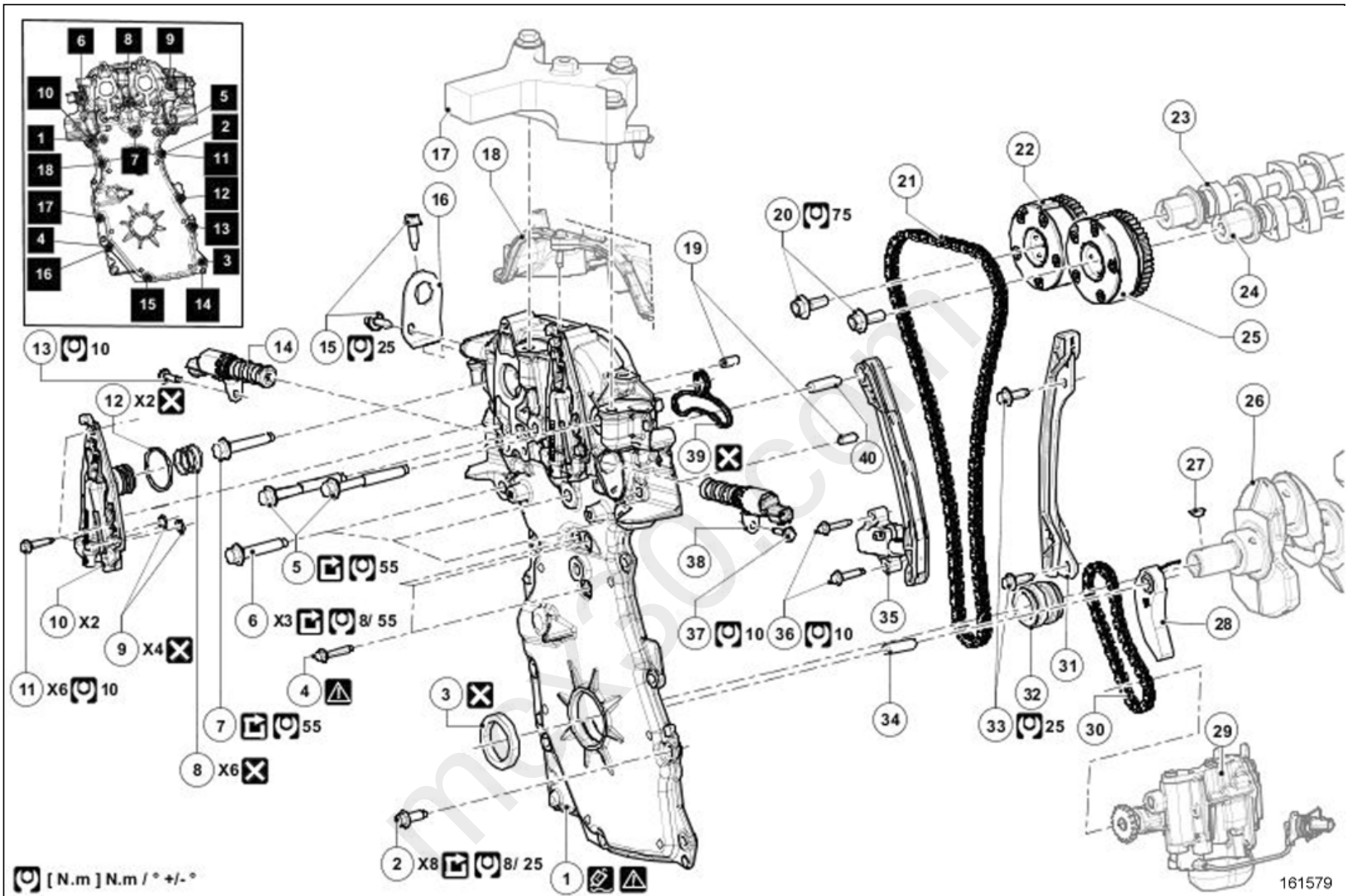


Note, one or more warnings are present in this procedure



WARNING

Before carrying out any operation on a vehicle fitted with the Stop & Start system, always follow the safety instructions [Vehicle: Precautions for the repair](#)



[Illustration key: Description](#) .

For fastenings with no specified tightening torque values, refer to the Table of Standard Torques [Tightening torques: General information](#) .

Marks	Designations	Informations
1	Timing cover	(see 11A, Top and front of engine, Timing chain: Removal - Refitting)
2	Timing cover bolts	Tightening order: step 1: bolts 1 to 4 = 8 N.m ; step 2: bolts 5 to 10 = 55 N.m +/-8 ; step 3: bolts 11 to 18 = 25 N.m +/-5
3	Crankshaft seal on timing end	(see 10A, Engine and cylinder block assembly, Crankshaft seal on timing end: Removal - Refitting)
4	Timing cover bolts	??Nm +/-??Nm
5	Timing cover bolts	Tightening order: step 1: bolts 1 to 4 = 8 N.m ; step 2: bolts 5 to 10 = 55 N.m +/-8 ; step 3: bolts 11 to 18 = 25 N.m +/-5
6	Timing cover bolts	Tightening order: step 1: bolts 1 to 4 = 8 N.m ; step 2: bolts 5 to 10 = 55 N.m +/-8 ; step 3: bolts 11 to 18 = 25 N.m +/-5
7	Timing cover bolts	Tightening order: step 1: bolts 1 to 4 = 8 N.m ; step 2: bolts 5 to 10 = 55 N.m +/-8 ; step 3: bolts 11 to 18 = 25 N.m +/-5
8	Camshaft dephaser oil supply cover seals	Diametre 8,9 mm ; x2 air inlet side, x2 exhaust side
9	Camshaft dephaser oil supply covers	
10	Camshaft dephaser oil supply cover bolt	10 N.m +/-2 ; x3 air inlet side, x3 exhaust side
11	Camshaft dephaser oil supply cover seal	Diametre 37,77 mm ; x1 air inlet side, x1 exhaust side
12	Exhaust camshaft dephaser solenoid valve bolt	10 N.m +/-2
13	Exhaust camshaft dephaser solenoid valve	(see 11A, Top and front of engine, Camshaft dephaser solenoid valve: Removal - Refitting)
14	Lifting eye bolts	25 N.m +/-4
15	Lifting eye	
16	Cylinder head suspended mounting	Engine-gearbox unit support assembly: Exploded view
17	Cylinder head cover	(see 11A, Top and front of engine, Rocker cover: Removal - Refitting)
18	Timing cover centring pins	
19	Timing sprocket bolts	75 N.m +/-7
20	Timing chain	
21	Exhaust camshaft timing sprocket	Timing sprocket: Removal - Refitting
22	Exhaust camshaft	(see 11A, Top and front of engine, Cylinder head assembly: Exploded view)
23	Inlet camshaft	
24	Inlet camshaft timing sprocket	Timing sprocket: Removal - Refitting
25	Crankshaft	Crankshaft: Removal - Refitting
26	Crankshaft accessories pulley wedge	
27	Oil pump chain tensioning guide	
28	Oil pump	(see 10A, Engine and cylinder block assembly, Engine oil circuit assembly: Exploded view)
29	Oil pump chain	
30	Timing chain guide	(see 11A, Top and front of engine, Timing chain: Removal - Refitting)