

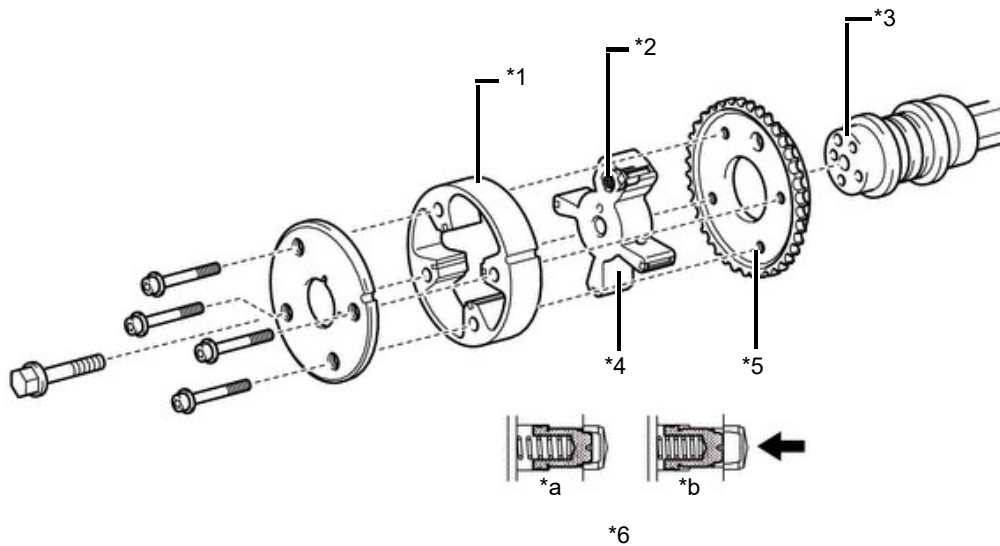
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2AR-FE ENGINE MECHANICAL ENGINE UNIT DETAILS CAMSHAFT TIMING INTAKE GEAR

CONSTRUCTION

- a. The camshaft timing gear assembly consists of an outer housing that is driven by the timing chain sprocket, and a vane sub-assembly that is coupled to the camshaft.
- b. The camshaft timing gear assembly uses a vane with 4 lobes.
- c. When the engine stops, the intake camshaft timing gear assembly is locked at the most retarded angle by its lock pin. This ensures excellent engine startability.
- d. The oil pressure sent from the advance or retard side passages of the intake camshaft causes rotation of the vane sub-assembly relative to the timing chain sprocket, varying the valve timing continuously.



*1	Housing	*2	Lock Pin
*3	Camshaft	*4	Vane (Fixed on Intake Camshaft)
*5	Sprocket	*6	Lock Pin
*a	Engine Stopped	*b	Engine Operating
 Oil Pressure		-	-