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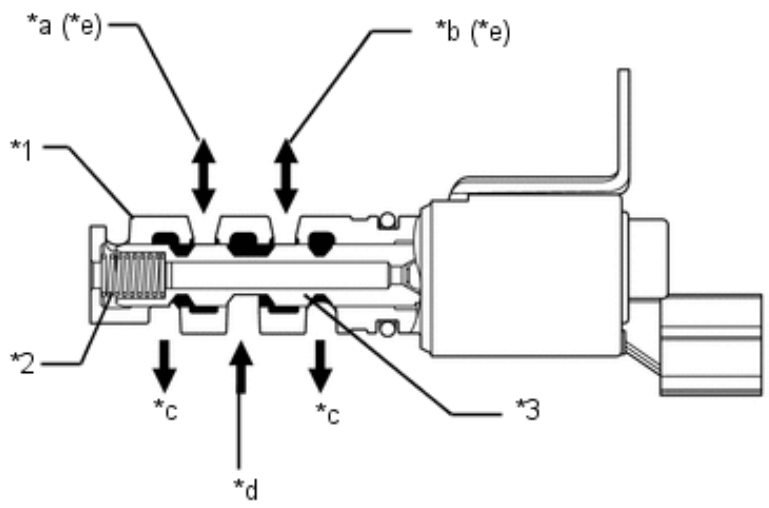
| **Last Modified:** 03-12-2013 | 6.4 F | **Doc ID:** NM1000000004HC0 |
| **Model Year:** 2013 | **Model:** RAV4 | **Prod Date Range:** [12/2012 - ] |
| **Title:** 2AR-FE ENGINE CONTROL: SFI SYSTEM: CAMSHAFT TIMING OIL CONTROL VALVE; 2013 MY RAV4 [12/2012 - ] | | |

# CAMSHAFT TIMING OIL CONTROL VALVE

## 1. CONSTRUCTION

(a) This camshaft timing oil control valve assembly controls the spool valve using duty-cycle control from the ECM. This allows hydraulic pressure to be applied to the VVT-i controller advanced or retarded side. When the engine is stopped, the camshaft timing oil control valve assembly (intake) is in the most retarded position, and camshaft timing oil control valve assembly (exhaust) is in the most advanced position.




| | | | |
|---|---|---|---|
| *1 | Sleeve | *2 | Spring |
| *3 | Spool Valve | - | - |
| *a | To VVT-i Controller (Advanced Side) | *b | To VVT-i Controller (Retarded Side) |
| *c | Drain | *d | Oil Pressure |
| *e | On the exhaust side camshaft timing oil control valve assembly, the advance and retard sides are reversed. | - | - |