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| Model Year Start: 2007 | Model: LS460 | Prod Date Range: [09/2006 -] |
| Title: 1UR-FSE ENGINE MECHANICAL: CAMSHAFT (for Bank 1): REMOVAL; 2007 MY LS460 [09/2006 -] | | |

REMOVAL

1. DISCHARGE FUEL SYSTEM PRESSURE

[INFO](#)

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

NOTICE:

After the engine switch is turned off, the HDD navigation system requires approximately 6 minutes to record various types of memory and settings. As a result, after turning the engine switch off, wait 6 minutes or more before disconnecting the cable from the negative (-) battery terminal.

3. REMOVE TIMING CHAIN COVER SUB-ASSEMBLY

(a) Remove the timing chain cover [INFO](#) .

4. SET NO. 1 CYLINDER TO TDC / COMPRESSION

[INFO](#)

5. REMOVE NO. 1 CHAIN TENSIONER ASSEMBLY (for Bank 1)

[INFO](#)

6. REMOVE CHAIN TENSIONER SLIPPER (for Bank 1)

7. REMOVE NO. 1 CHAIN VIBRATION DAMPER (for Bank 1)

[INFO](#)

8. REMOVE CHAIN SUB-ASSEMBLY (for Bank 1)

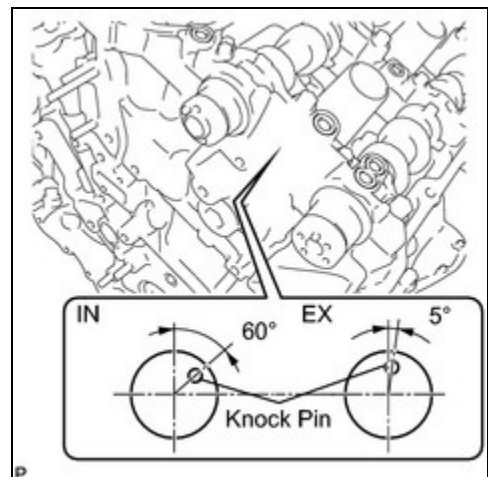
[INFO](#)

9. REMOVE NO. 3 CHAIN TENSIONER ASSEMBLY

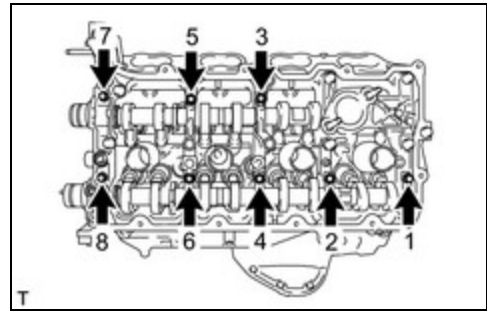
[INFO](#)

10. REMOVE CAMSHAFT BEARING CAP (for Bank 1)

(a) Make sure that the knock pin of the camshaft is positioned as shown in the illustration.



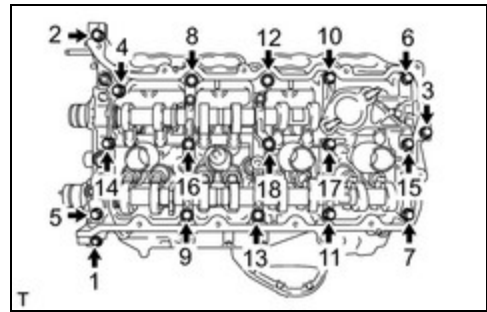
(b) Uniformly loosen and remove the 8 bearing cap bolts in the sequence shown in the illustration.



(c) Uniformly loosen and remove the 18 bearing cap bolts in the sequence shown in the illustration.

NOTICE:

Uniformly loosen the bolts while keeping the camshaft level.



(d) Remove the 7 bearing caps.

HINT:

Arrange the removed parts in the correct order.

(e) Remove the No. 3 and No. 4 camshafts.

11. REMOVE CAMSHAFT HOUSING SUB-ASSEMBLY (for Bank 1)

(a) Remove the camshaft housing by prying between the cylinder head and camshaft housing with a screwdriver.

NOTICE:

Be careful not to damage the contact surfaces of the cylinder head and camshaft housing.

HINT:

Tape the screwdriver tip before use.

