



AD10584

TOYOTA

Model:	Hi-Lux D (LN105/110) • Hi-Ace 2,5D (LH61) • Dyna 100/150
Year:	1988-95
Engine Code:	2L, 2LT (2446 cc), 3L (2779 cc)

Special Tools

- Crankshaft pulley drift - Toyota No. 09223-63010.
- Crankshaft pulley holding tool - Toyota No. 09213-54015 and 09330-00021.
- Puller for crankshaft pulley - Toyota No. 09213-60017.

Recommended Replacement Interval

Pre 12/93 - every 60,000 miles.
01/94 on - every 63,000 miles.

Timing Belt Failure

CAUTION: Although engine damage will NORMALLY occur, check compressions before removing cylinder head.

Repair Times - hrs

Remove & install:

Dyna	2,00
PAS	0,20
AC	0,30
Hi-Lux D	1,80
Hi-Ace	2,40
PAS	+0,20
AC	+0,50
Land Cruiser	2,00
PAS	+0,10
AC	+0,30

Special Precautions

- Disconnect battery earth lead.
- Do NOT turn crankshaft or camshaft when timing belt removed.
- Remove spark or glow plugs to ease turning engine.
- Turn engine in normal direction of rotation (unless otherwise stated).
- Do NOT turn engine via camshaft or other sprockets.
- Observe all tightening torques.
- Check diesel injection pump timing after belt replacement - see Autodata Diesel Injection Manual.

Removal

1. Drain cooling system.
2. Remove:
 - Radiator.
 - Cooling fan and pulley.
 - Auxiliary drive belts.
3. Using tool Nos. 09213-54015 and 09330-00021 undo crankshaft pulley bolt and washer **1**.
4. Using tool No. 09213-60017 or a suitable puller remove crankshaft pulley **2**.

5. Remove timing belt cover retaining bolts **3**.
6. Remove cover and seal **4** & **5**.
7. Refit crankshaft pulley bolt and turn engine to TDC on No.1 cylinder, ensuring timing marks align **6**, **7** & **8**.
8. Loosen tensioner retaining bolt **9**.
9. Using a screwdriver lever tensioner away from belt and lightly tighten bolt.
10. Remove belt guide from crankshaft sprocket.
11. Remove timing belt.

Installation

1. Check timing marks are aligned **6**, **7** & **8**.
2. Starting at crankshaft sprocket fit the timing belt, keeping belt tight between sprockets in the following sequence: Tensioner, injection pump, camshaft, guide (idler) sprocket.
3. Loosen tensioner bolt **9**, turn engine four complete turns clockwise, check timing marks align.
4. Tighten tensioner bolt to 44 Nm.
5. Refit belt guide and timing belt cover and seal.
6. Remove crankshaft pulley bolt, refit crankshaft pulley, using special tool No. 09223-60010 and tap pulley into place.
7. Fit crankshaft pulley bolt and washer, hold pulley with tool Nos. 09213-54015 and 09330-00021 and tighten bolt **1** to 167 Nm.
8. Refit remainder of components in reverse order of removal.
9. Refill cooling system.
10. Reset timing belt warning lamp by removing grommet from front of speedometer, and pressing reset switch.

NOTE: To reset timing belt warning lamp on Hi-Ace models, remove instrument panel **10**, undo warning lamp switch screw **11** and transfer to next hole. Check warning lamp goes out and refit instrument panel.