# ACURA

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|---|---|
| Model: | **3.2CL • 3.2TL • MDX 3.5L** |
| Year: | **2000-03** |
| Engine Identification: | **J32A1, J32A2, J35A3, J35A5** |

### Replacement Interval Guide

Acura recommends replacement every 105,000 miles or 84 months, whichever occurs first under normal conditions or 60,000 miles under adverse conditions.
*The previous use and service history of the vehicle must always be taken into account.*

### Check For Engine Damage

*CAUTION: This engine has been identified as an INTERFERENCE engine in which the possibility of valve-to-piston damage in the event of a timing belt failure is MOST LIKELY to occur.*
*A compression check of all cylinders should be performed before removing the cylinder head.*

### Labor Times – hrs

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|---|---|
| Remove & install | 4.40 |

### Special Tools

- Crankshaft pulley holder handle – Acura No.07JAB-001020A.
- Crankshaft pulley holder – Acura No.07MAB-PY3010A.
- Crankshaft pulley bolt socket – Acura No.07JAA-001020A.

## Special Precautions

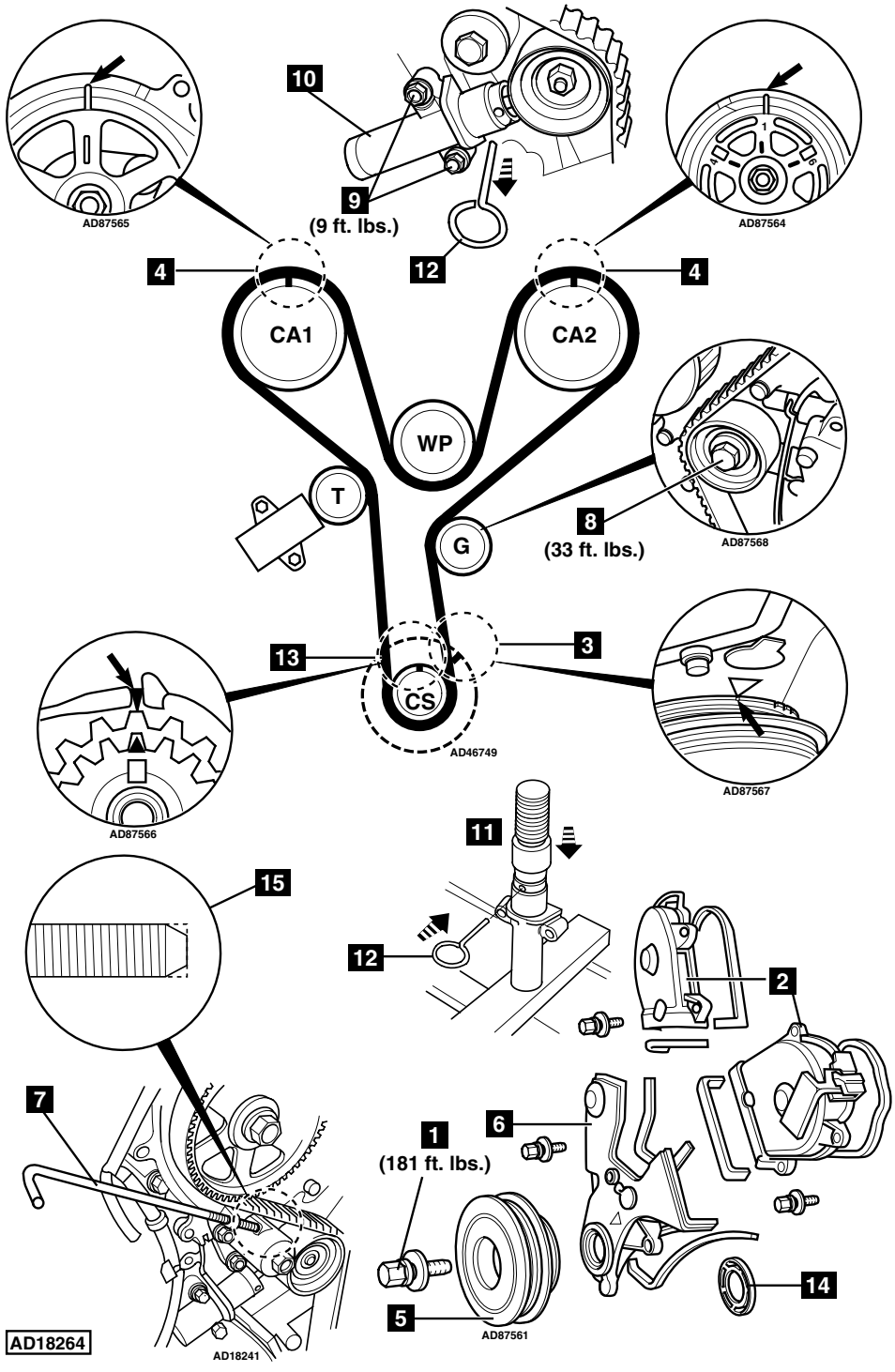
- Disconnect battery ground cable.
- Do NOT turn crankshaft or camshaft with timing belt removed.
- Remove spark plugs to ease turning engine.
- Turn crankshaft in normal direction of rotation (unless otherwise stated).
- Do NOT turn crankshaft via camshaft or other sprockets.
- Observe all tightening torques.

## Removal

1. Raise and support front of vehicle.
2. Remove:
   - Front wheel assemblies.
   - Front lower splash guard.
   - Accessory drive belts.
3. Support the engine and remove:
   - Right hand engine mount.
   - Right hand engine mount bracket.
   - Oil dipstick & pipe.
4. Hold the crankshaft pulley with tool Nos.07MAB-PY3010A/07JAB-001020A.
5. Loosen the crankshaft pulley bolt 1 using tool No.07JAA-001020A.
6. Remove timing belt upper covers 2.
7. Turn the crankshaft clockwise until No.1 cylinder at TDC of compression stroke with white timing mark (TDC) on crankshaft pulley aligned with pointer 3.
8. Ensure the camshaft sprocket timing marks 4 are aligned.
9. Remove:
   - Crankshaft pulley bolt 1.
   - Crankshaft pulley 5.
   - Timing belt lower cover 6.
   - Timing belt guide plate 14 (if fitted).
10. Remove one battery clamp bolt and screw into the auto tensioner bracket to retain tensioner in position 7.
    ***NOTE: Tighten bolt by hand only. Do not overtighten. Grind end of battery clamp bolt 15.***
11. Loosen the guide pulley bolt 8 5 or 6 turns.
12. Remove the timing belt.

## Installation

1. Remove the battery clamp bolt 7 from the auto tensioner bracket and reinstall on battery tray.
2. Undo and remove bolts 9 and remove auto tensioner 10.
3. Align the hole in the tensioner body with the hole in the pushrod and using a press with a maximum force of 2200 lbs. slowly press the pushrod into the auto tensioner body 11.
4. Retain pushrod in position with a 0.080 in. pin 12.
5. Install auto tensioner 10 to engine and torque bolts 9 to 9 ft. lbs.
6. Ensure the timing marks 13 & 4 are aligned.
7. Install timing belt to the sprockets and pulleys in the following order:
   - Crankshaft sprocket.
   - Guide pulley.
   - Camshaft sprocket (CA2).
   - Water pump pulley.
   - Camshaft sprocket (CA1).
   - Tensioner pulley.
8. Ensure timing belt taut between sprockets on non-tensioned side.
9. Torque guide pulley bolt 8 to 33 ft. lbs.
10. Remove the pin 12 from auto tensioner to allow tensioner to operate.
11. Install timing belt guide plate 14 (if fitted).
12. Install the engine mount bracket and lower timing belt cover 6.
13. Install crankshaft pulley 5.
14. Apply engine oil to the crankshaft pulley face, bolt threads and washer, then torque the bolt 1 to 181 ft. lbs.
15. Turn the crankshaft six turns clockwise until No.1 cylinder at TDC of compression stroke with white timing mark (TDC) on crankshaft pulley aligned with pointer 3.
16. Ensure the camshaft sprocket timing marks 4 are aligned.
17. Install components in reverse order of removal.
18. Torque the wheel lug nuts to 80 ft. lbs.


AD87565
10
9
(9 ft. lbs.)
12
AD87564
4
4
CA1
CA2
WP
T
G
8
(33 ft. lbs.)
AD87568
13
3
CS
AD46749
AD87567
AD87566
11
15
12
2
7
1
(181 ft. lbs.)
6
5
AD87561
14
AD18264
AD18241