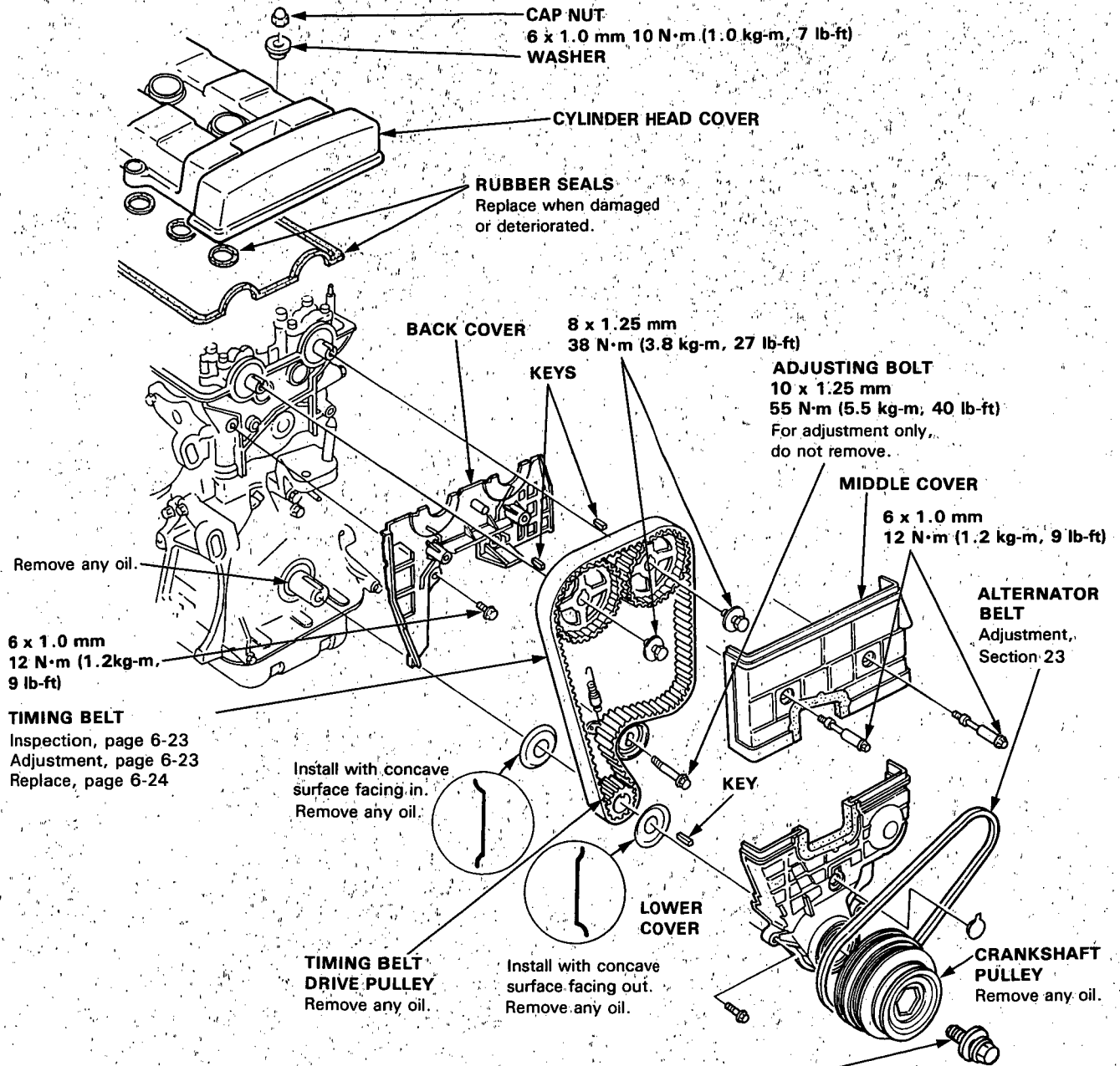


# Timing Belt

## Illustrated Index

### NOTE:

- Refer to page 6-26 for positioning crankshaft and pulley before installing belt.
- Mark the direction of rotation on the belt before removing.



### NOTE: When installing a new crankshaft and/or new bolt:

- ①tighten the crankshaft pulley bolt to 200 N·m (20.0 kg-m, 145 lb-ft),
- ②loosen bolt,
- ③retighten it to 180 N·m (18.0 kg-m, 130 lb-ft).

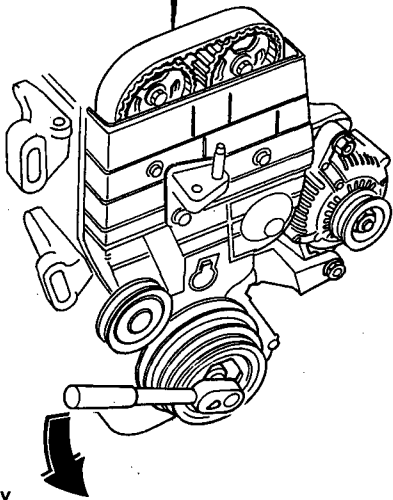
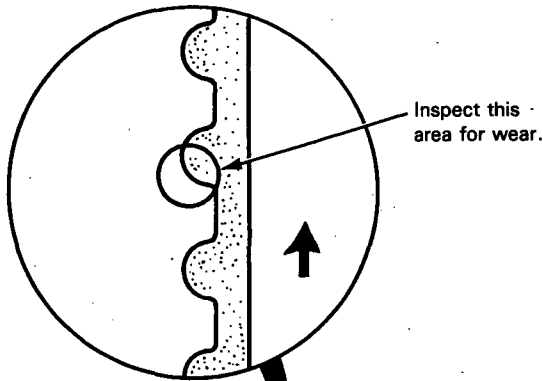


## Inspection

1. Remove the cylinder head cover.
2. Remove the middle cover.
3. Inspect the timing belt for cracks and oil soaking.

**NOTE:**

- Replace the belt if oil soaked.
- Remove any oil or solvent that gets on the belt.



Rotate pulley  
and inspect belt.

4. After inspecting, retorque the crankshaft pulley bolt to 180 N·m (18.0 kg-m, 130 lb-ft).

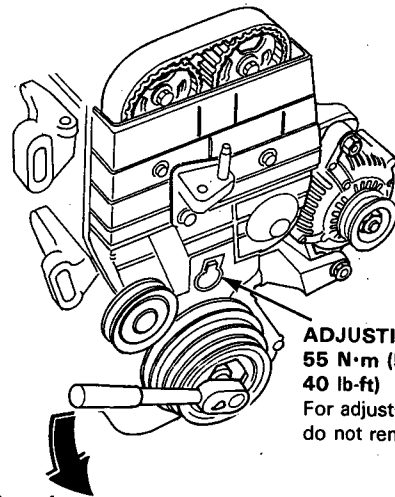
## Tension Adjustment

**CAUTION:** Always adjust timing belt tension with the engine cold.

**NOTE:**

- The tensioner is spring-loaded to apply proper tension to the belt automatically after making the following adjustment.
- Always rotate the crankshaft counterclockwise when viewed from the pulley side. Rotating it clockwise may result in improper adjustment of the belt tension.

1. Remove the cylinder head cover.
2. Set the No. 1 piston at (TDC) (page 6-26).



Direction of  
rotation.

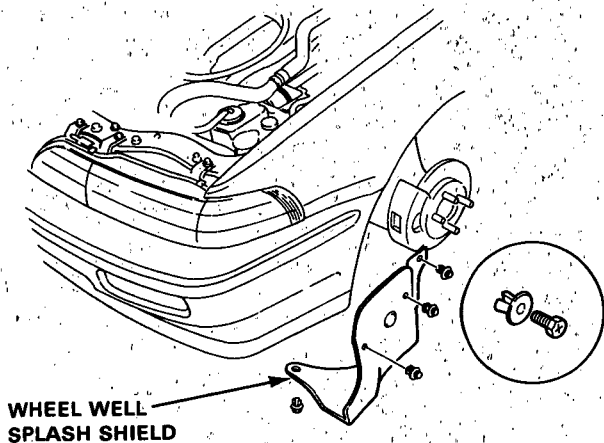
3. Rotate the crankshaft counterclockwise 3-teeth on the camshaft pulley, then loosen the adjusting bolt to create tension on the timing belt.
4. Tighten the adjusting bolt.
5. After adjusting, retorque the crankshaft pulley bolt to 180 N·m (18.0 kg-m, 130 lb-ft).

# Timing Belt

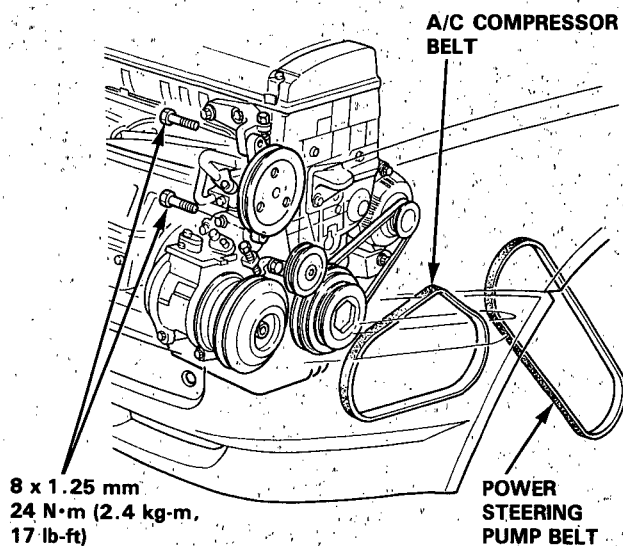
## Replacement

NOTE: Turn the crankshaft pulley so that the No. 1 piston is at top dead center (TDC) before removing the belt (page 6-26).

1. Remove the wheel well splash shield.



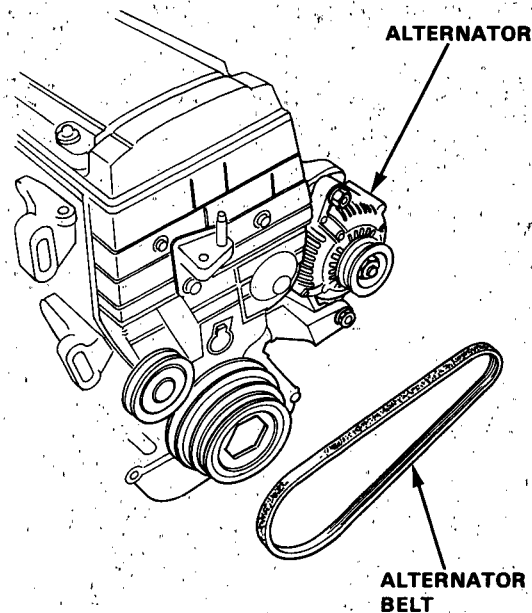
2. Remove the power steering pump belt and power steering pump.
  - Do not disconnect the power steering hoses.
3. Remove the air conditioning (A/C) compressor belt (standard for some types).



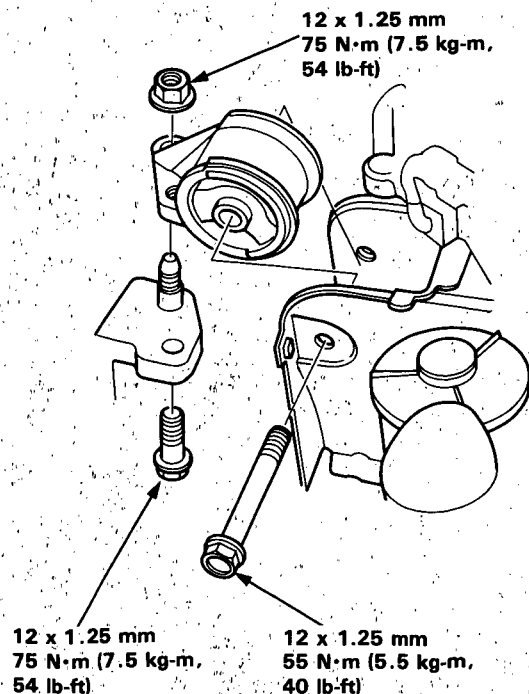
4. Remove the alternator belt.

NOTE: After installation, adjust the tension of each belt.

- See section 23 for alternator belt tension adjustment.
- See section 22 for A/C compressor belt tension adjustment.
- See section 17 for power steering belt tension adjustment.



5. Remove the engine support bolts and nut, then remove the side engine mount.



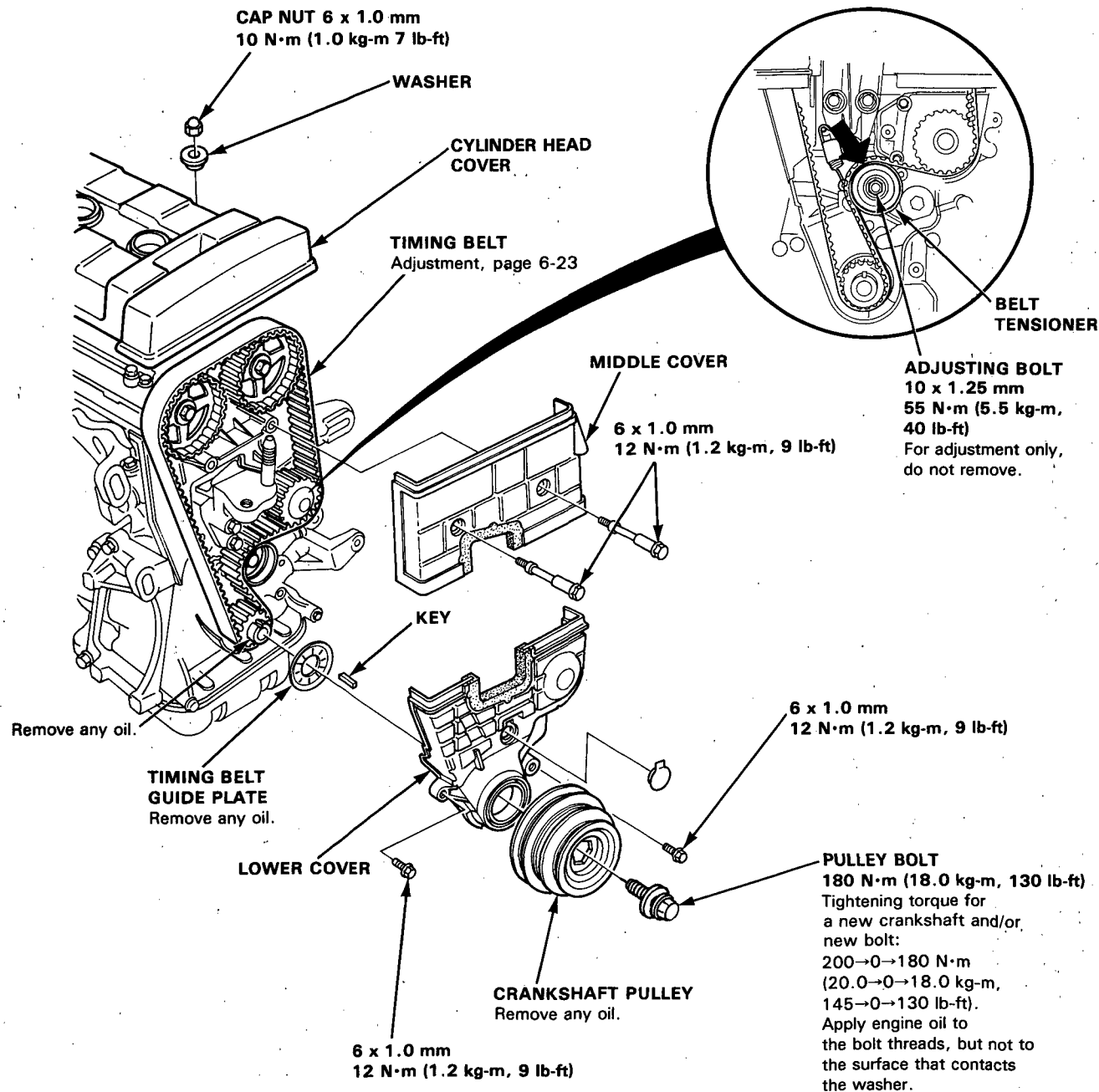


6. Remove the cylinder head cover.
7. Remove the middle cover.
8. Remove the pulley bolt and crankshaft pulley.
9. Remove the lower cover.
10. Loosen the adjusting bolt, push the tensioner to remove tension from the timing belt, then retighten the bolt.
11. Remove the timing belt.

**NOTE:** When installing a new crankshaft and/or new bolt:

- ①tighten the crankshaft pulley bolt to 200 N·m (20 kg-m, 145 lb-ft),
- ②loosen bolt,
- ③retighten it to 180 N·m (18.0 kg-m, 130 lb-ft).

**NOTE:** Push the tensioner pulley to loosen the belt.



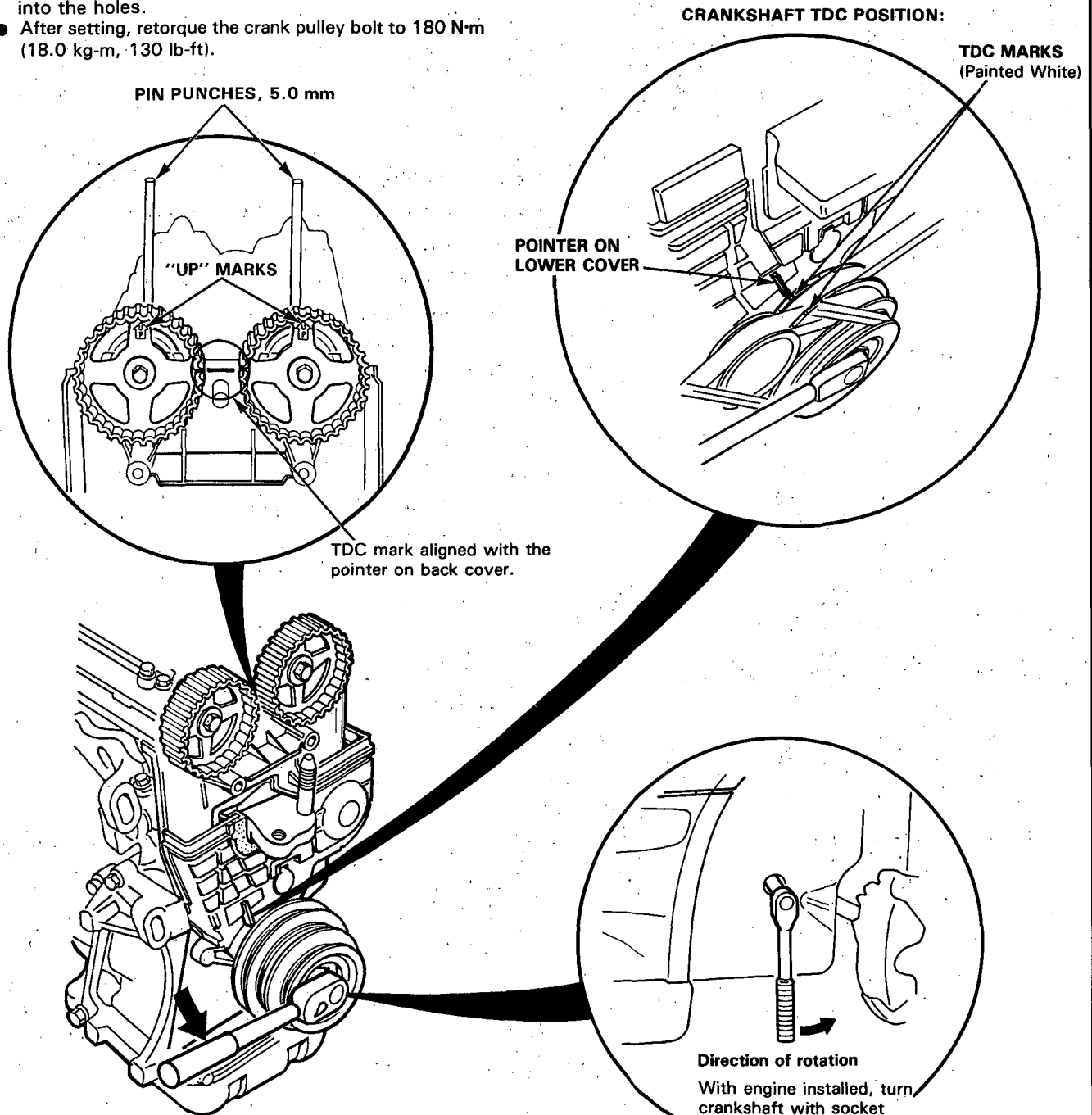
12. Install in reverse order of removal; adjust the valve clearances (page 6-3).
  - Refer to page 6-26 for positioning crankshaft and pulley before installing the new belt.
13. Perform the timing belt tension adjustment (page 6-23).

# Timing Belt

## Positioning Crankshaft Before Installing Timing Belt

**NOTE:**

- Install the timing belt with the No. 1 piston at top dead center (TDC).
- To set the camshafts to TDC position for No. 1 cylinder, align the hole in the camshafts with the holes in the No. 1 camshaft holders and insert 5.0 mm pin punches into the holes.
- After setting, retorque the crank pulley bolt to 180 N·m (18.0 kg-m, 130 lb-ft).



**NOTE:**

- To set the crankshaft to TDC, install the timing belt guide plates, timing belt drive pulley, timing belt lower cover, crankshaft pulley, and crankshaft pulley bolt.