

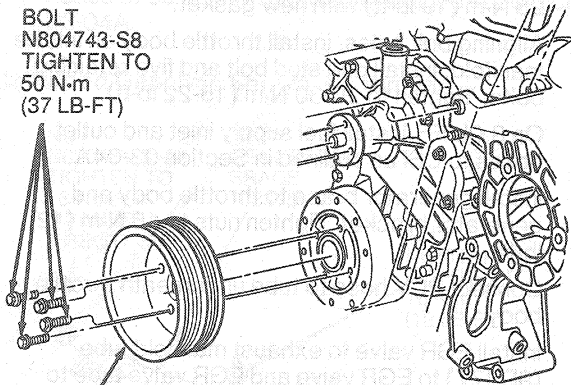
## IN-VEHICLE SERVICE (Continued)

- Front Cover Seal Replacer T70P-6B070-A
- Vibration Damper and Seal Installer T82L-6316-A
- Vibration Damper Remover Adapter T82L-6316-B

## Removal

1. Disconnect battery ground cable and set aside.
2. Remove accessory drive belt. Refer to Section 03-05.
3. Raise vehicle on hoist. Refer to Section 00-02.
4. Remove RH front wheel and tire assembly.
5. Remove four crankshaft pulley retaining bolts and remove pulley.

BOLT  
N804743-S8  
TIGHTEN TO  
50 N·m  
(37 LB-FT)



CRANKSHAFT  
PULLEY 6312

A8588-D

6. Remove crankshaft damper retaining bolt and washer.  
**CAUTION: Use care when removing damper so as not to damage crankshaft or create burrs.**
7. Remove damper from crankshaft using Crankshaft Damper Remover T58P-6316-D and Vibration Damper Remover Adapter T82L-6316-B.  
**CAUTION: Use care to prevent damage to front cover, crankshaft position sensor and crankshaft.**
8. Remove front oil seal cover by prying seal from timing cover with a flat blade screwdriver or other similar tool.

## Unleaded Gasoline Shown, FF Similar

CRANKSHAFT VIBRATION  
DAMPER 6316 LUBRICATE  
OUTSIDE OF DAMPER HUB  
WITH OIL PRIOR TO  
INSTALLATION

BOLT  
TIGHTEN TO  
125-165 N·m  
(93-121 LB-FT)  
HAND START

FLATWASHER  
6378

FRONT OF ENGINE

NOTE: APPLY RTV  
ON KEYWAY PRIOR  
TO INSTALLATION  
DO NOT ALLOW  
RTV TO CONTACT  
CRANK SEAL  
SURFACE.

A8587-C

## Installation

## Tool Required:

- Vibration Damper and Seal Installer T82L-6316-A
1. Inspect front cover and shaft seal surface of the crankshaft damper for damage, nicks, burrs or other roughness which may cause the new seal to fail. Service or replace components as necessary.
  2. Lubricate seal lip with clean engine oil XO-10W30-QSP (ESE-M2C153-E) or equivalent and install seal using Vibration Damper and Seal Installer T82L-6316-A and Front Cover Seal Replacer T70P-6B070-A.
  3. Coat crankshaft damper sealing surface with clean engine oil XO-10W30-QSP (ESE-M2C153-E) or equivalent. Apply Silicone Rubber D6AZ-19562-BA (ESB-M4G92-A) or equivalent to keyway of damper prior to installation. Install damper using Vibration Damper and Seal Installer T82L-6316-A.
  4. Install damper retaining bolt and washer. Tighten to 125-165 N·m (93-121 lb-ft).
  5. Install crankshaft pulley and install four retaining bolts. Tighten retaining bolts to 40-60 N·m (30-44 lb-ft).
  6. Install RH wheel and tire assembly. Refer to Section 04-04.
  7. Lower vehicle.
  8. Position drive belt over crankshaft pulley.
  9. Check drive belt for proper routing and engagement in the pulleys. Refer to Section 03-05.
  10. Connect battery ground cable.
  11. Start engine and check for oil leaks.