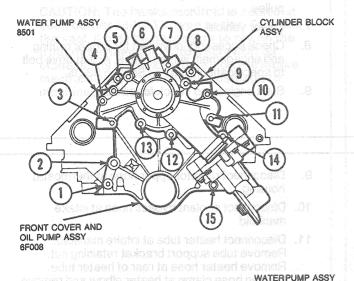
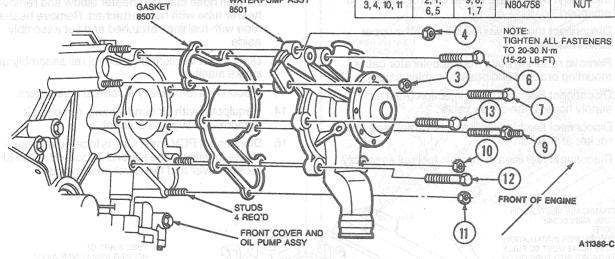
## **IN-VEHICLE SERVICE (Continued)**

9. Start engine and check for coolant leaks.



FASTENER AND HOLE NO.	HOLE NO.		FASTENERS	
	WATER PUMP	FRONT COVER	PART NO.	PART NAME
1,		4	N805112	STUD
2.		2	N805112	STUD
3.	2	9	N804757	STUD
4.	1	8	N804757	STUD
5.		10	N605787	BOLT
6.	9	15	N605908	BOLT
7.	8	16	N605908	BOLT
8.		11	N605787	BOLT
9.	7	17	N804756	BOLT
10.	6	1	N805275	STUD
11.	5	7	N804757	STUD
12.	4	13	N605908	BOLT
13.	3	14	N605908	BOLT
14.		6	N804839	BOLT
15.		5	N804841	CAP SCREW
3, 4, 10, 11	2, 1, 6, 5	9, 8, 1, 7	N804758	NUT



## Crankshaft Front Oil Seal Tools Required:

- Crankshaft Damper Remover T58P-6316-D
- Front Cover Seal Installer T70P-6B070-A
- Damper / Front Cover Seal Installer T82L-6316-A
- Vibration Damper Remover Adapter T82L-6316-B

## Removal

- Loosen accessory drive belt idler.
- 2. Raise vehicle on hoist. Refer to Section 00-02.
- 3. Disengage accessory drive belt and remove crankshaft pulley.

- 4. Remove crankshaft damper using Crankshaft Damper Remover T58P-6316-D and Vibration Damper Remover Adapter T82L-6316-B.
  - CAUTION: Use care to prevent damage to front cover and crankshaft.
- Remove seal from the front cover using a screwdriver.

## Installation

- Inspect front cover and crankshaft damper for damage, nicks, burrs or other roughness which may cause the seal to fail. Service or replace components as necessary.
- Lubricate the seal lip with clean engine oil and install the seal using Damper/Front Cover Seal Installer T82L-6316-A and Front Cover Seal Installer T70P-6B070-A.