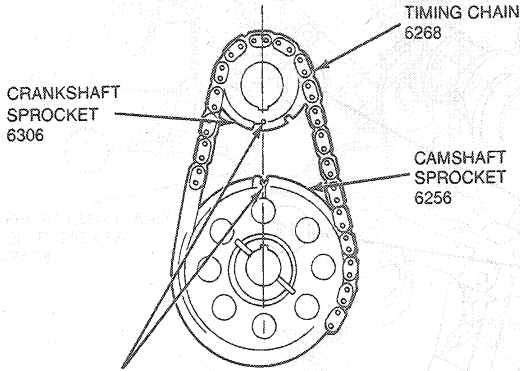


**IN-VEHICLE SERVICE (Continued)**

5. Lubricate timing chain with XO-10W30-QSP (ESE-M2C153-E) or equivalent engine oil.  
Install camshaft sprocket, crankshaft sprocket and timing chain.
6. Remove pin from tensioner assembly to load tensioner arm against chain.  
Ensure timing marks on sprockets are positioned across from each other.



POSITIONING OF TIMING MARKS AND KEYWAYS IN CAMSHAFT AND CRANKSHAFT SPROCKETS MUST BE IN LINE AS SHOWN WITH NO. 1 PISTON AT TOP DEAD CENTER FIRING.

A12694-A

Description	Part Number	Quantity
Timing Chain	6268	1
Crankshaft Sprocket	6306	1
Camshaft Sprocket	6256	1
Distributor Drive Gear	6258	1
Bolt and Washer Assy	6259	1
Tensioner and Sprocket	6254	1
Timing to 40-50 lb-ft (5.3-6.8 kPa)	A	1

7. Install distributor drive gear.
8. Install bolt and washer assembly at end of camshaft and tighten to 40-50 N-m (30-37 lb-ft).
9. Lubricate crankshaft front oil seal with clean engine oil XO-10W30-QSP (ESE-M2C153-E) or equivalent.
10. Position a new cover gasket on the cylinder block and install the front cover / water pump assembly using dowels for proper alignment.  
Gasket and Trim Adhesive D7AZ-19B508-B (ESR-M11P17-A and ESE-M2G52-A) or equivalent is recommended to hold the gasket in position while the front cover is installed.
11. Position ignition timing indicator on front cover.

Description	Part Number	Quantity
Crankshaft	6306	1
Key Crankshaft	6315	1
Camshaft	6256	1
Sprocket	6256	1
Key Camshaft	6258	1
Distributor Drive Gear	6258	1

**NOTE:** The front cover contains the oil pump and water pump. If a new front cover is to be installed, remove the water pump and oil pump from the old front cover. Refer to Front Cover Assembly.

**NOTE:** Lightly oil all bolt and nut threads before installation except those specified in special instructions.

1. Clean all gasket surfaces on the front cover, cylinder block and fish pump.  
2. Reinstall the front cover, replace crankshaft front oil seal.