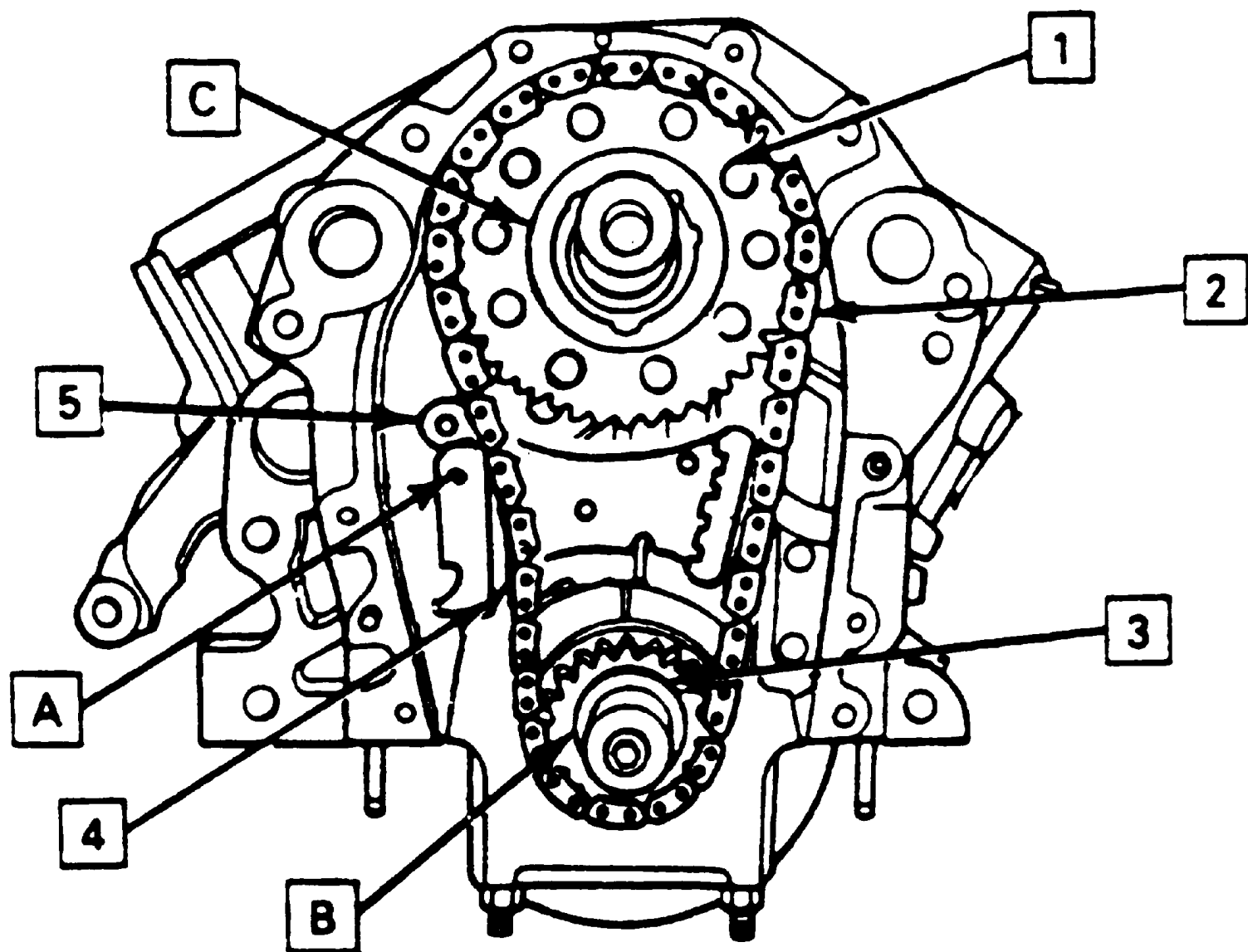


Vehicle: 1996 PONTIAC GRAND PRIX: GTP 3.4L V6 (X) LQ1-GAS-FI-N

Content: Engine Service >> Timing Chain

TIMING CHAIN & GEAR SET, REPLACE

1. Raise and support vehicle.
2. Remove starter and flywheel cover.
3. Remove oil pan as outlined under "Oil Pan, Replace."
4. Remove engine as outlined under "Engine, Replace."
5. Remove front cover as outlined under "Front Cover, Replace."
6. Mark reference points on the intermediate sprocket, chain link, front face of cylinder and crankshaft sprocket, **Fig. 1**.
7. Retract timing chain tensioner as outlined under "Timing Chain Tensioner, Replace."
8. Remove timing chain and crankshaft sprocket using universal puller bridge tool No. J-8433, or equivalent, and special legs and protector tool No. J-38611, or equivalent. If intermediate gear does not slide off easily with timing chain, rotate crankshaft back and forth to help loosen gear.
9. Reverse procedure to install, noting the following:
 - a. Aligning marks made during disassembling.
 - b. Large chamfer and counterbore of crankshaft sprocket are installed toward crankshaft.
 - c. Intermediate shaft sprocket spline sockets are installed away from case.
 - d. Crankshaft sprocket must be pressed on for final .31 inch to seated position using crankshaft gear installer tool No. J-38612, or equivalent.



- 1** INTERMEDIATE SHAFT SPROCKET
- 2** TIMING CHAIN
- 3** CRANKSHAFT SPROCKET
- 4** TIMING CHAIN TENSIONER
- 5** 25 N·m (18 LB. FT.)
- A** SPRING PIN HOLE
- B** CHAMFER AND COUNTER BORE INWARD
- C** SPROCKETS OUTWARD