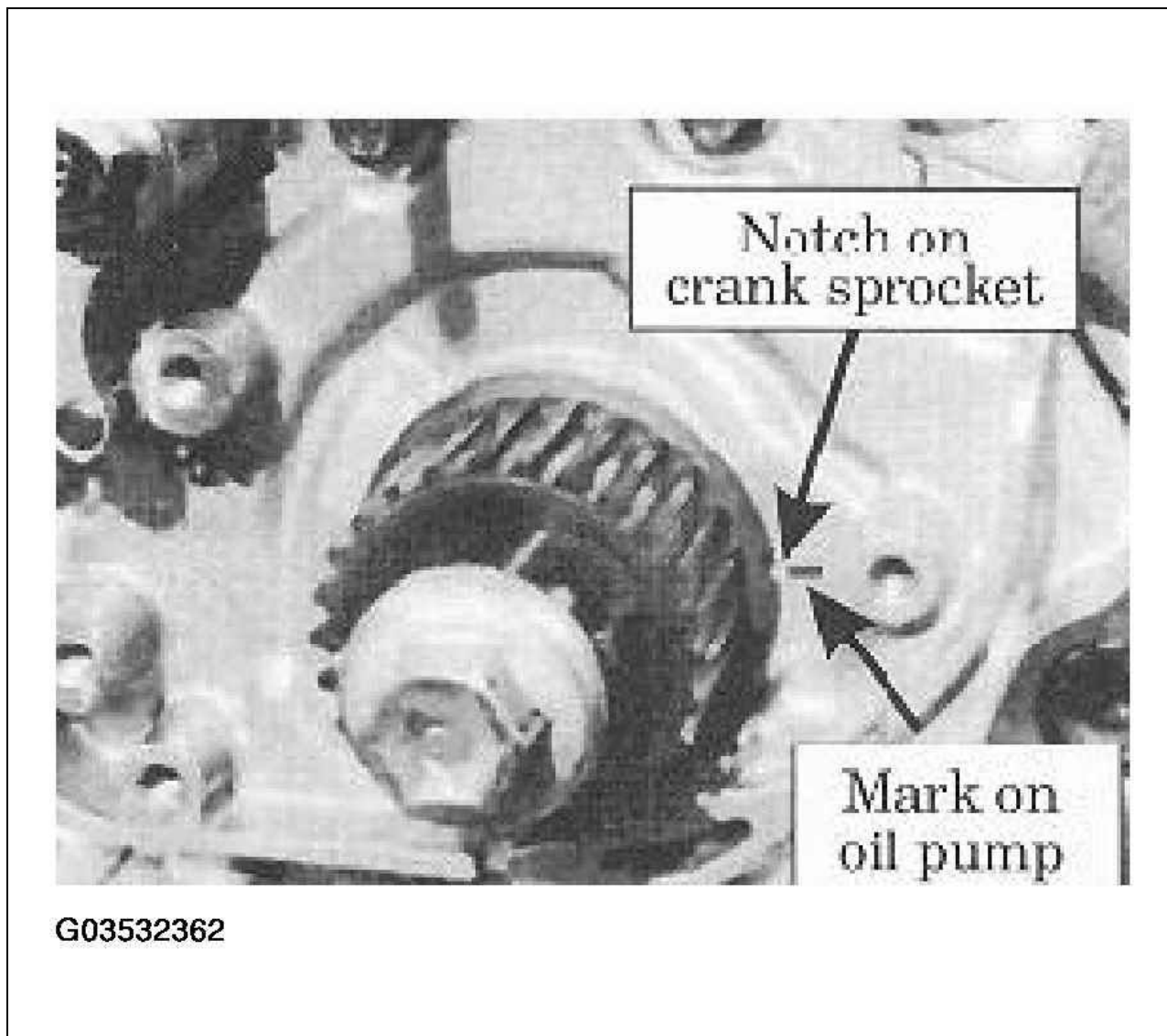


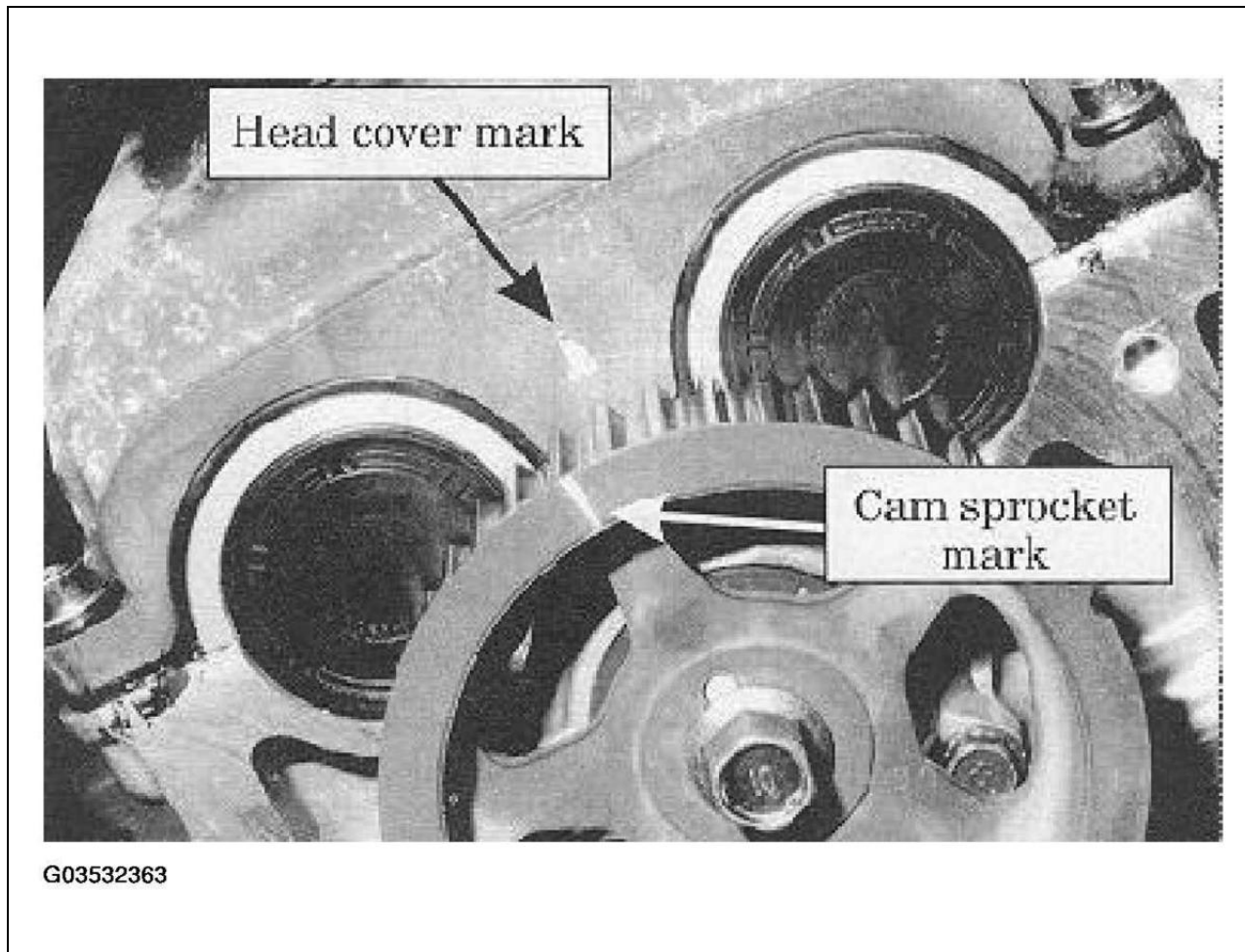
Fig : Aligning Crankshaft Sprocket To Mark On Oil Pump Cover



22. Time the camshafts on the odd numbered bank cylinders (passenger side), by rotating the odd bank camshaft sprocket until it springs to the 12 o'clock position. (Figure)

NOTE: *It may require up to 9 revolutions.*

Fig : Aligning Head Cover Mark With Cam Sprocket Mark

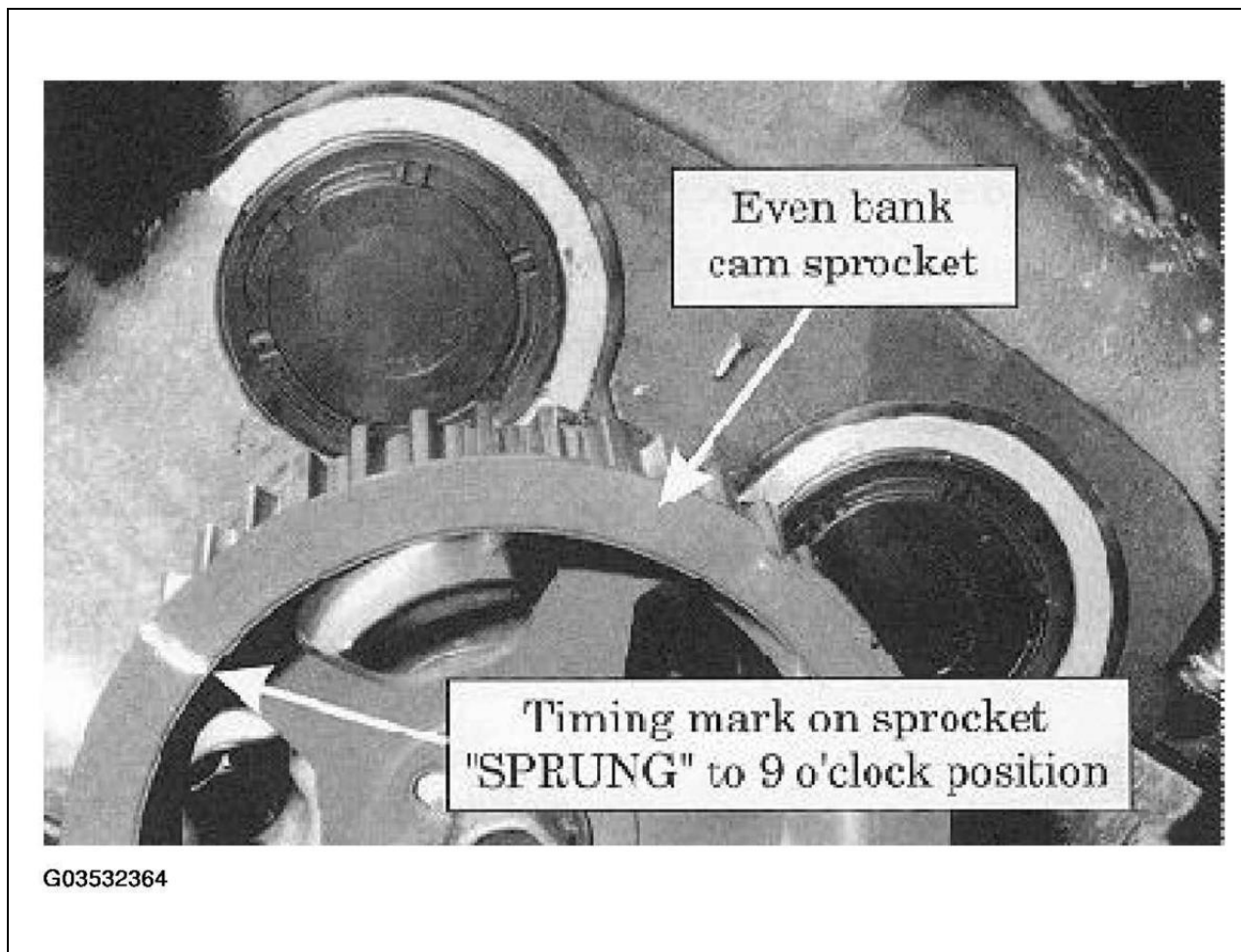


IMPORTANT: *Due to the loss of the reference timing, you will have to rotate this camshaft sprocket until the timing mark on the*

camshaft sprocket "springs" into the 12 o'clock position. This may require up to 9 revolutions. If the camshaft does not spring to the 12 o'clock position, camshaft timing will be incorrect.

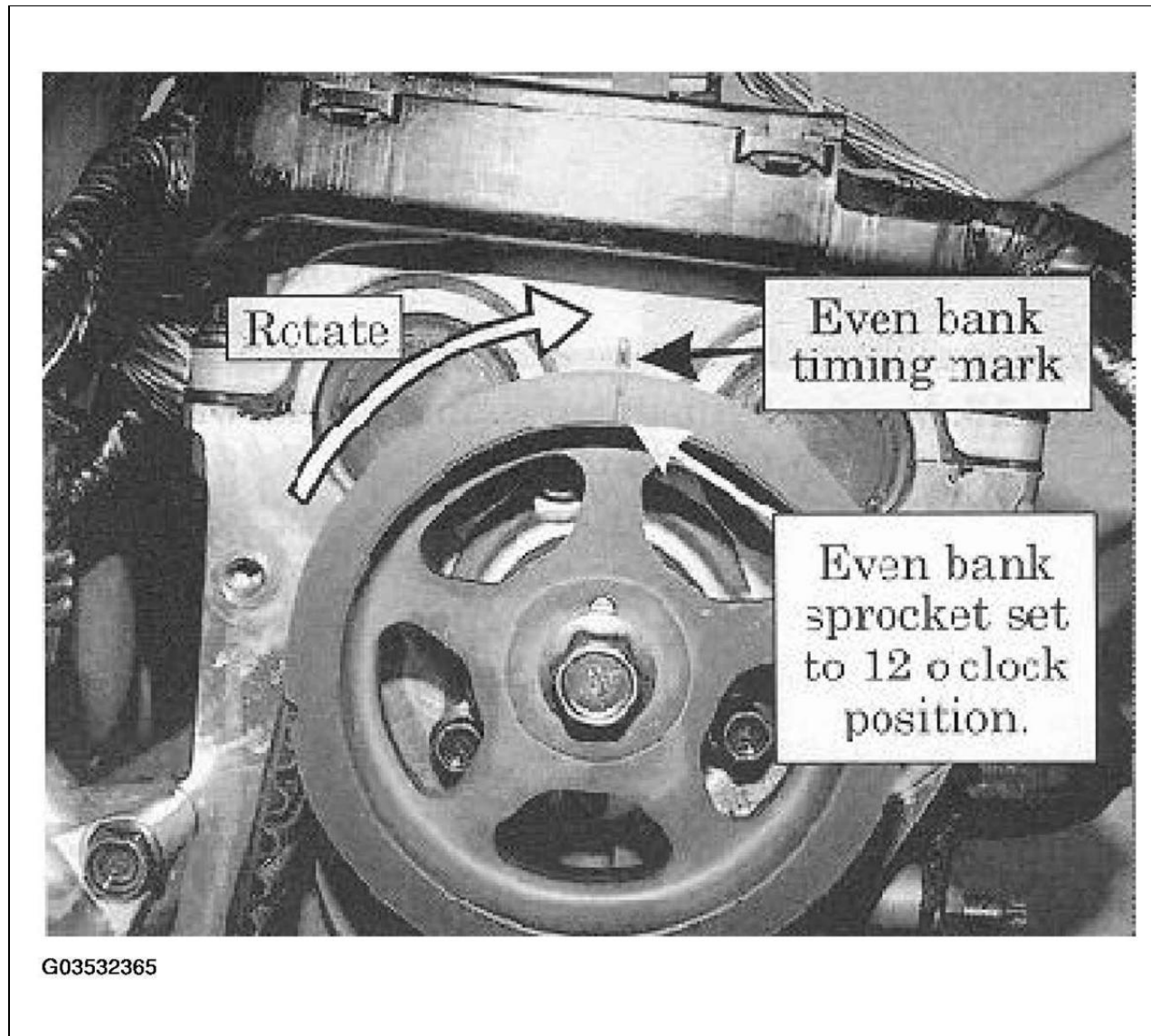
23. Time the camshafts on the even numbered bank cylinders (driver side), using the two step process.
- Rotate the even bank camshaft sprocket clock-wise until the cam sprocket "springs" to the 9 o'clock position. (Figure)

Fig : Rotating Cam Sprocket To 9 o'clock Sprung Position



- b. Rotate the even bank camshaft sprocket an additional 90 degrees (clockwise) to the 12 o'clock position and align the camshaft sprocket mark with the mark embossed on the cylinder head cover. (Figure)

Fig : Positioning Cam Sprocket To 12 o'clock



IMPORTANT: *Step b is necessary to achieve the correct camshaft timing for the odd bank of cylinders. Failure to perform this last step will result in incorrect valve timing.*

NOTE: *Install the timing belt following the procedures outlined in following steps. Make sure that timing marks are not disturbed during this operation. After installing the timing belt, make sure that all the timing marks are in their proper position. It is very easy to mis-install the belt and be off a tooth, which could cause driveability problems.*

24. With the timing marks in their proper position, position the timing belt with marks, noting the direction of rotation.

NOTE: *On the timing belt, there are series of green arrows indicating the direction of rotation. There are also two solid white lines and one dotted white line. Install the belt with the solid lines perpendicular to the marks on the camshaft sprocket. (Figure and 14)*

Fig : Aligning Timing Marks With Belt On Odd Bank Side (Left)

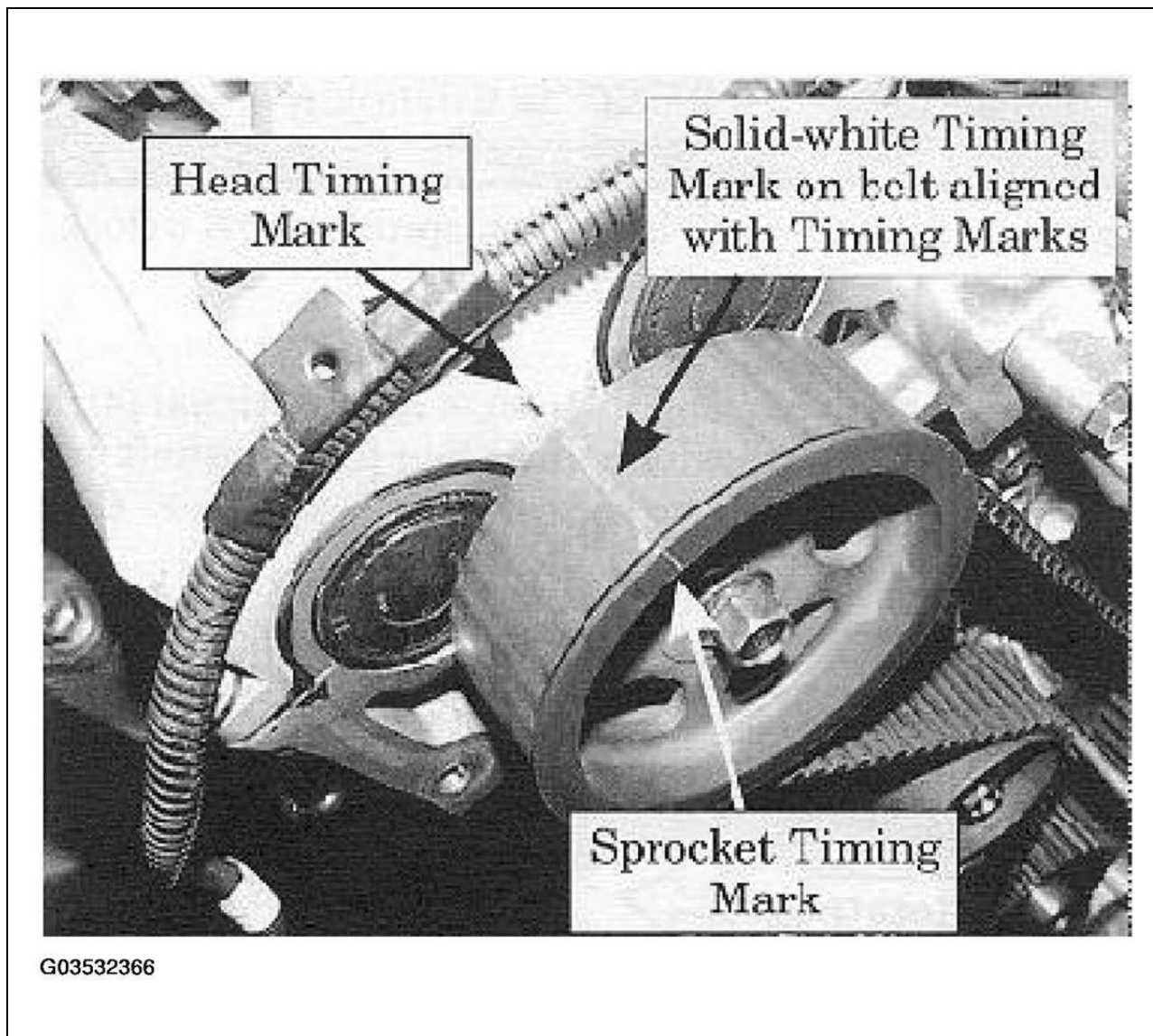
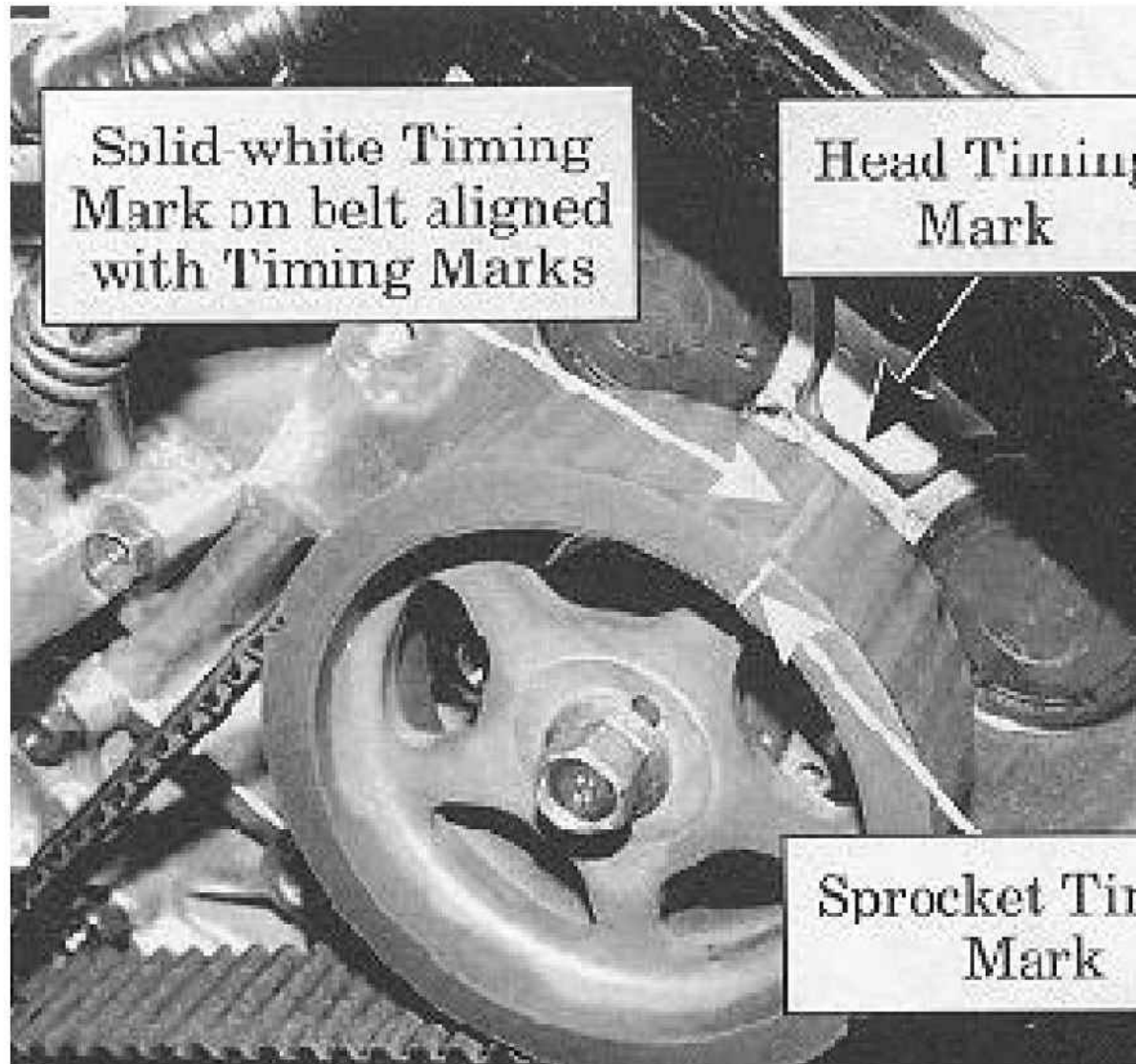


Fig : Aligning Timing Marks With Belt On Even Bank Side (Right)



Solid white Timing Mark on belt aligned with Timing Marks

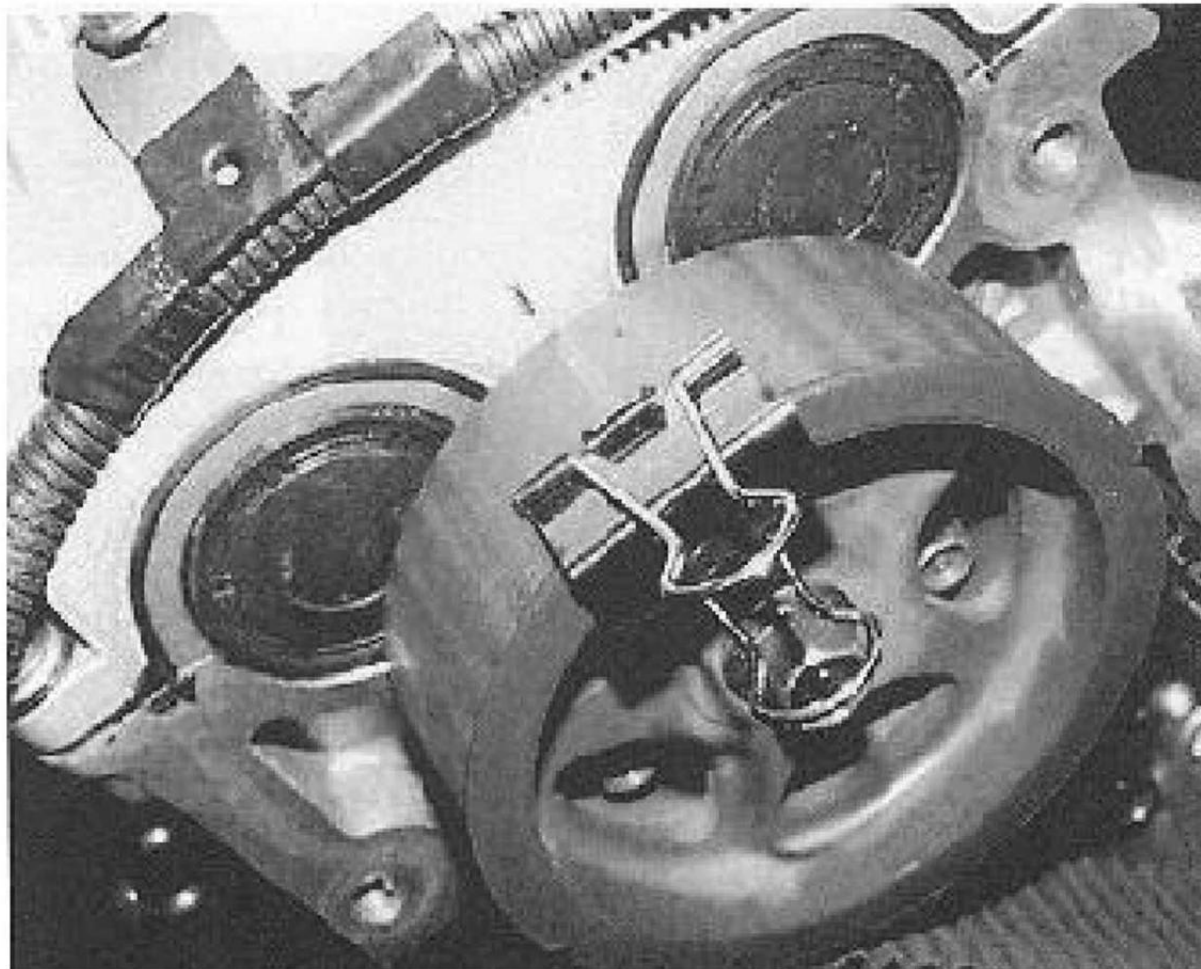
Head Timing Mark

Sprocket Timing Mark

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25. Secure the belt to the camshaft sprockets using binder clamps. This will keep the belt in the proper tooth of the sprocket and will assist in holding the belt in place. (Figure & 16)

Fig : Securing Odd Bank Cam Sprocket With Binder Clamp In Place (Left)



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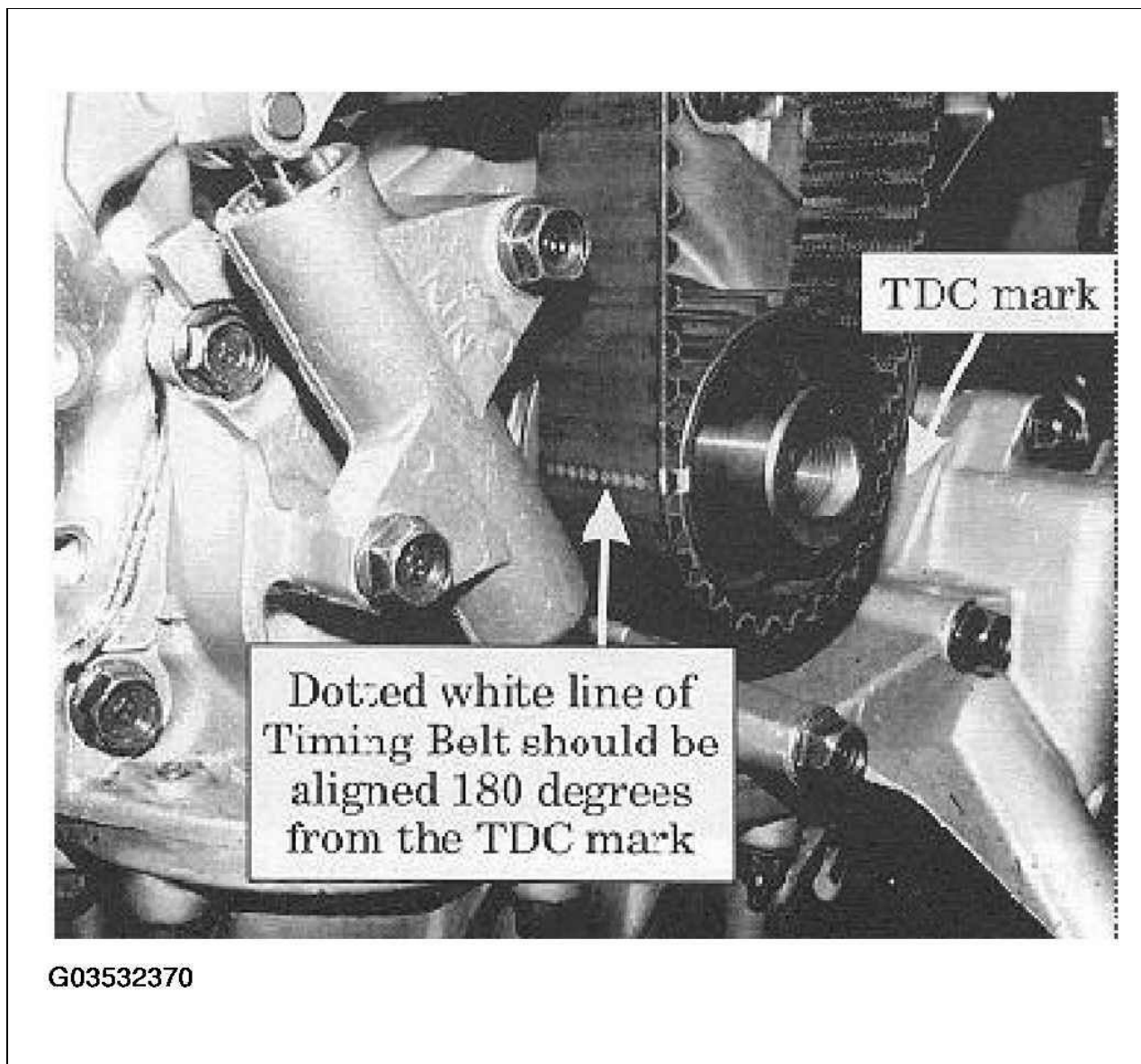
Fig : Securing Even Bank Cam Sprocket With Binder Clamp In Place (Right)



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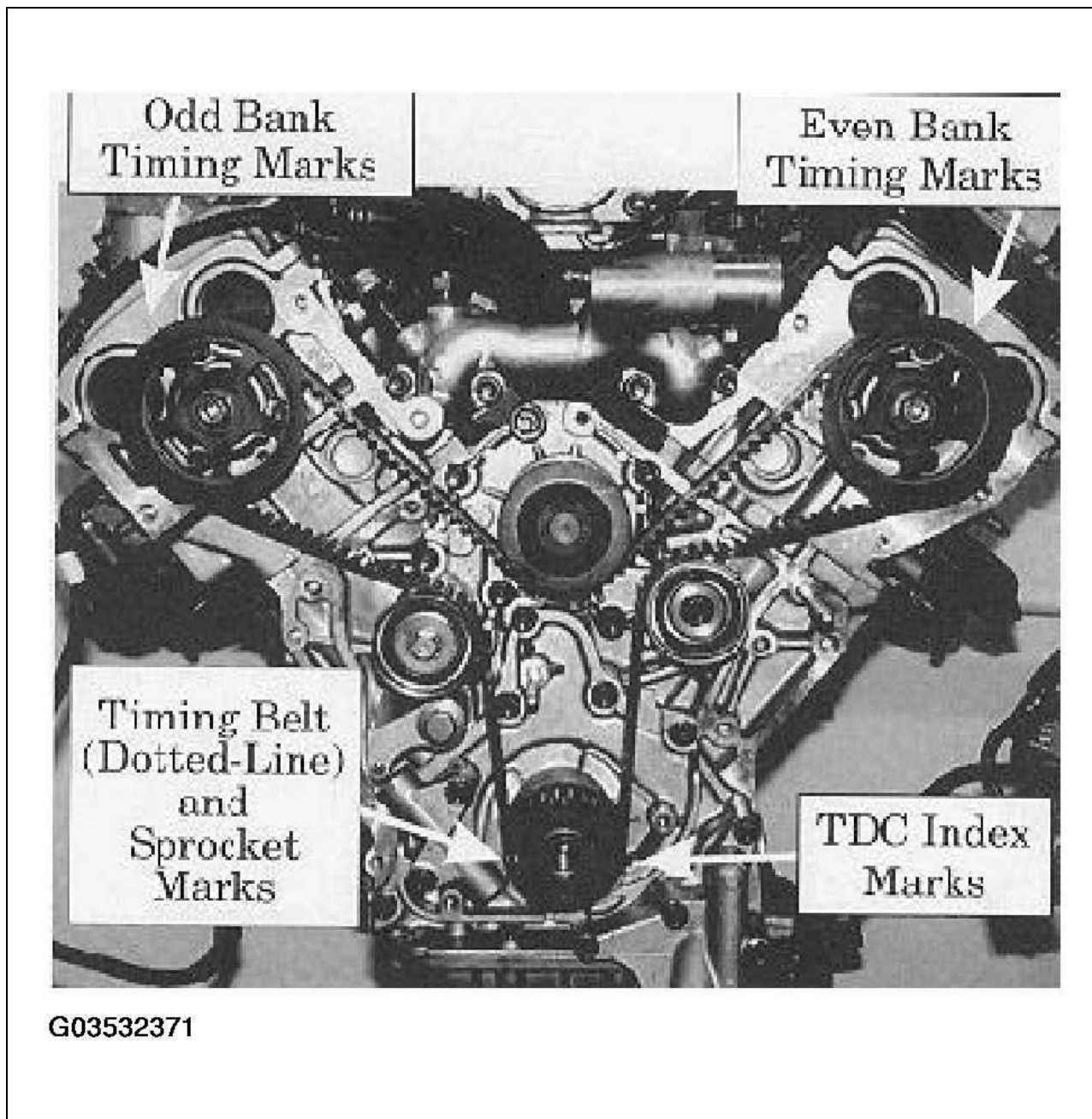
26. Align the dotted-white line of the timing belt with the white timing mark of the crank sprocket (180° from TDC timing notch). Slip the belt into place and install the belt tensioner (remove retaining pin afterwards). (Figure)

Fig : Aligning Dotted-White Line Of Timing Belt With White Timing Mark Of Crank Sprocket



27. After installing timing belt make sure that all the timing marks are still in their proper position and have not been disturbed during the tensioning of the belt. (Figure)

Fig : Confirming Position Of Timing Marks



IMPORTANT: *If you have resistance while rotating the engine by hand, do not continue. The valves may be contacting the pistons due to incorrect valve timing. Recheck the camshafts and crankshafts sprockets to be sure they are correctly aligned with their marks. Serious engine damage could occur if the belt is improperly installed.*

28. Remove the binding clips.
29. Rotate crankshaft pulley a minimum of 2 complete turns (clockwise) and inspect if the timing marks have returned to the same position (#2 Piston on TDC). If it has returned to the same position then continue to Step 31. If there is resistance, please refer to the IMPORTANT note stated above.
30. Proceed to the remaining reassembly procedure as outlined in the appropriate Workshop Manual.