

**500, 501, 502, 504, 505, 507 - Subaru Cam Sprocket Tool Instructions**

**Use Standard Int/Exh Cam Sprocket Tool #500 w with these sprockets**



**Use AVCS Int Cam Sprocket Tool #501 with these sprockets**



**Use Dual AVCS Exh Cam Sprocket Tool #502 with these sprockets**



**Use Phase 1 Cam Sprocket Tool #504 with these sprockets**





Use JDM AVCS Int Cam Sprocket Tool #505 with these sprockets



Use SOHC Cam Sprocket Tool #507 with these sprockets



**SPECIAL NOTES:**

- The use of a factory service manual is highly recommended. These can be purchased at the dealer, or downloaded online at <http://techinfo.subaru.com>
- Company23 is not responsible for damage done to your vehicle as a result of misuse of this product.
- Company23 does its best to ensure the accuracy of this manual but is not responsible for errors.

**LOOSENING INSTRUCTIONS:**

Step 1) Remove the V-belt. (See Subaru service manual)

Step 2) Remove the crankshaft pulley. (See Subaru service manual or Company23 Subaru Crank Tool Manual)

Step 3) Remove the belt cover. (See Subaru service manual)

Step 4) Remove the timing belt assembly. (See Subaru service manual)

Step 5) Remove the camshaft position sensor. (See Subaru service manual)

Step 6) Using a 1/2" drive breaker bar and a 10mm hex bit socket and the proper Company23 Cam Sprocket Tool, loosen the crank pulley bolt while firmly holding the Company23 Cam Sprocket Tool. Unthread the bolt completely and remove sprocket.

## **TIGHTENING INSTRUCTIONS:**

Step 1) Inspect the sprocket. Check the sprocket teeth for abnormal wear and scratches. Make sure there is no free play between sprocket and key. Check the crankshaft sprocket notch used for sensor for damage and contamination of foreign matter.

Step 2) Install the camshaft sprocket.

**CAUTION: Do not confuse left and right side camshaft sprockets during installation.**

Step 3) Tighten sprocket to *72.4 ft-lb (10 kgf-m, 98 N-m)* using a 1/2" drive breaker bar and a 10mm hex bit socket and the proper Company23 Cam Sprocket Tool.

Step 4) Install the camshaft position sensor. (See Subaru service manual)

Step 5) Install the timing belt assembly. (See Subaru service manual)

Step 6) Install the belt cover. (See Subaru service manual)

Step 7) Install the crankshaft pulley. (See Subaru service manual or Company23 Subaru Crank Tool Manual)

Step 8) Install the V-belt. (See Subaru service manual)