

# J 42083 AUTOMATIC TIMING LOCK

## APPLICATION: MOST CATERPILLAR ENGINES

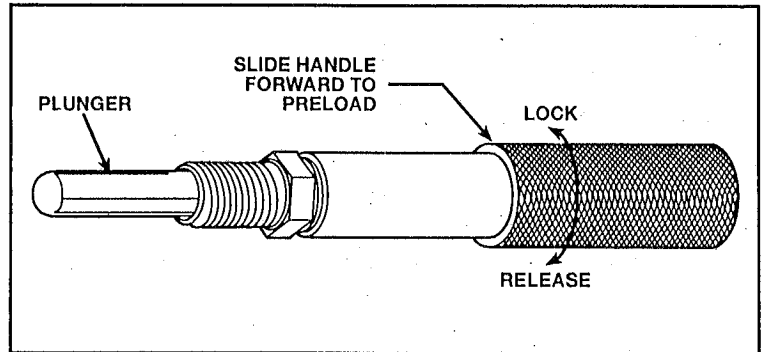
**PURPOSE:** The J 42083 Automatic Timing Lock turns the sometimes frustrating and time consuming, two person, task of finding Top Center Compression Position for the number 1 piston into a simple quick one person procedure.

Top Center Compression position for the number 1 piston is the starting point for all fuel timing and valve clearance procedures.

## PROCEDURE:

**NOTE:** Depending on the engine application, you can use either the left or right timing access holes located on the front face, of the flywheel housing.

There are also two holes in the flywheel that will come into alignment with either the left or right front face access holes of the flywheel housing. These two holes in the flywheel are at different distances from the flywheel center so the automatic timing lock cannot engage the wrong hole.



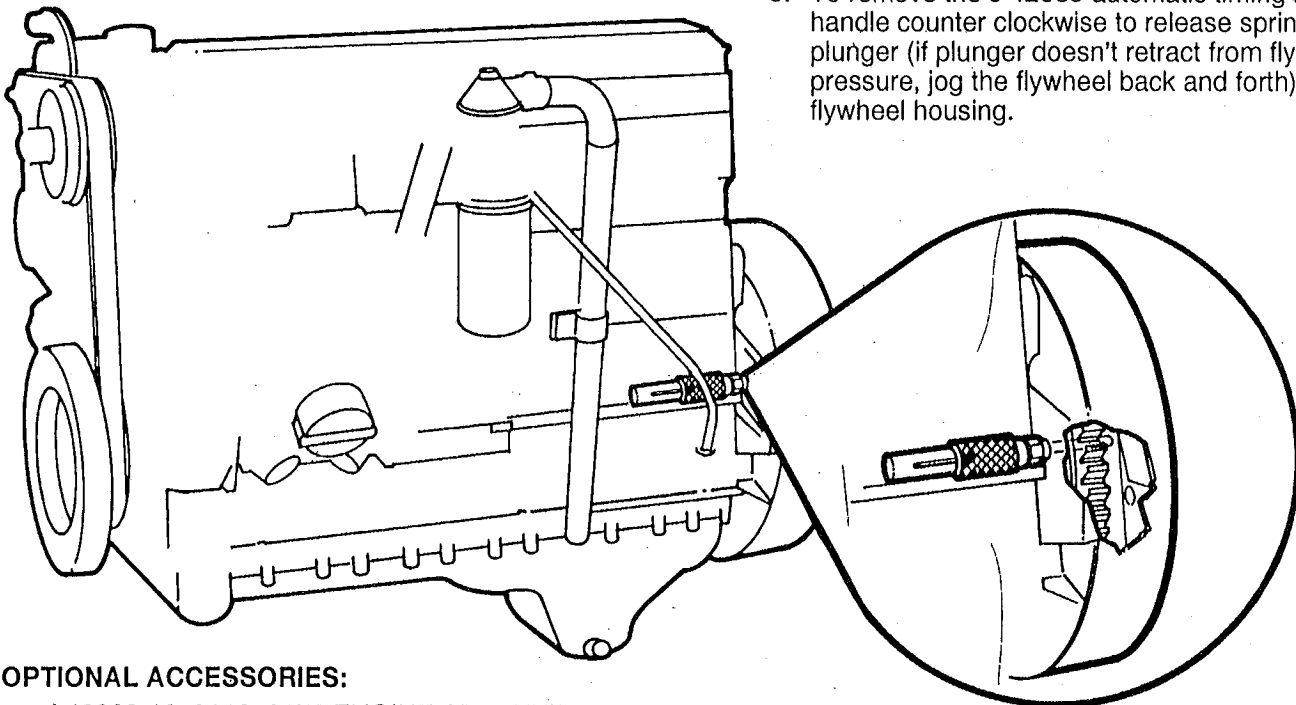
1. Remove the plug from either the left or right side timing access holes.
2. To install, hand tighten the J 42083 automatic timing lock into the timing access hole.
3. Preload the spring on the automatic timing lock by pushing the slide handle forward and turn it clockwise to engage either of the two locking slots.
4. Manually, turn engine in direction of rotation (usually counter clockwise.. refer to Caterpillar Service

Manual) until a noticeable "click" sound is heard. The automatic timing lock plunger has now engaged the flywheel timing holes in either the top center compression or exhaust stroke.

Proceed with fuel timing and valve clearance procedures as outlined in the Caterpillar Service Manuals.

**REMEMBER TO CHECK THE ROCKER ARM MOVEMENT TO DETERMINE IF YOU ARE ON THE COMPRESSION OR EXHAUST STROKE.**

5. To remove the J 42083 automatic timing lock, turn slide handle counter clockwise to release spring tension on the plunger (if plunger doesn't retract from flywheel with light pressure, jog the flywheel back and forth). Unscrew from flywheel housing.



## OPTIONAL ACCESSORIES:

J 42083-10 3116, 3176 ENGINE ADAPTER

US PATENT #5,440,947

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