

Part # 1214

## 4 Pc. Benz Timing Tool Set - M157, M276, M278

- Use for aligning the camshaft timing angle to correct position
- Services Mercedes Benz (60°) V6 engine from 2011-2019
- Compare to Mercedes Benz Factory Tool #276589014000
- Applications: M157, M276, M278 engines



**CAUTION:** To prevent injury, always wear gloves and eye protection that meets ANSI Z87.1 and OSHA standards.

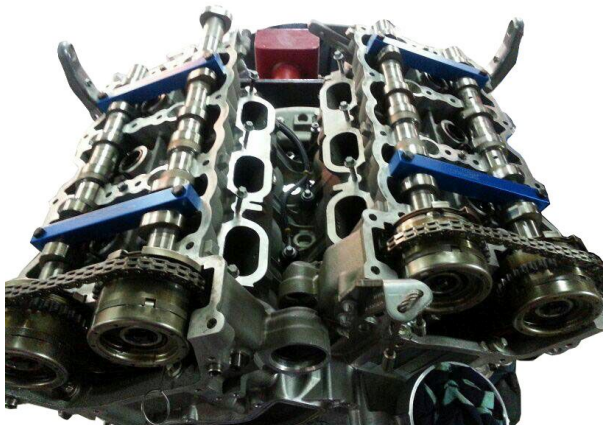
**CAUTION:** To prevent equipment damage, clean and lubricate threaded screws and holes before and after use.

### Required Tools:

- Torque wrench
- Camshaft locking tool
- Crankshaft locking pin
- Timing chain tensioner tool

### INSTRUCTIONS:

1. Disconnect battery ground cable. Remove engine covers for access to front timing cover.
2. Lock crankshaft in place with locking pin through inspection hole in transmission bell housing.
3. Loosen timing chain tensioner bolt and depress tensioner plunger fully with tool. Re-tighten bolt to secure tensioner.
4. Remove timing chain sprocket covers. Turn engine to align timing marks on camshaft sprockets vertically.
5. Install CTA 1214-1 and 1214-2 alignment plates to left and right camshaft hubs. Ensure plates sit flush.
6. Install CTA 1214-3 and 1214-4 to mounting bosses on cylinder heads. Hand tighten nuts to hold in place.
7. Turn crankshaft clockwise only to align notches in camshaft sprockets with tabs on alignment plates.
8. Torque nuts on alignment plates 1214-3 and 1214-4 to secure cam timing position.
9. Loosen tensioner bolt to relieve tension. Remove locking pin and alignment tools.
10. Rotate crankshaft twice and recheck cam timing mark alignment to verify.
11. Reinstall covers and components. Torque fasteners to specs.



### Mercedes Benz Applications:

Model	Year
CL500 / 63AMG (C 216)	2010-2013
S500 / 63AMG (C 217)	2014+
CLS300 (C 218)	2012+
E300 / 350 / 400 (C/A 207)	2011+
CLS350 / 400 / 500 / 63AMG (C/X 218)	2011-2014
SLK350 (R 172)	2011+
SL350 / 400 / 500 / 63AMG (R 231)	2012+
S500 PLUG-IN HYBRID (V 222)	2014+
ML300 / 350 / 500 / 63AMG (W 166)	2011+
C400 (W 205)	2014+
E400 HYBRID (W 212)	2012+
G63AMG (W 463)	2012+
E300 / 350 / 400 / 500 / 63AMG (W/S 212)	2011+
C350 (W/S/C 204)	2011+
S350 / 500 / 63AMG (W/V 221)	2010+
S400 / 63AMG (W/V 222)	2013+
R350 Blue EFFICIENCY (W/V 251)	2012+
GL450 / 500 (X 166)	2012+
GLK350 (X 204)	2011+

