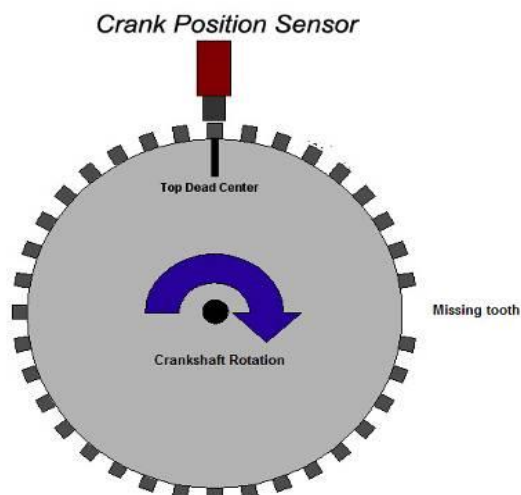




A-Series Crank Trigger Kit Installation Instructions



1. You will need access to the crankshaft pulley to mount the trigger wheel and boss onto your engine's crankshaft. To gain sufficient access on a Mini you may need to remove the front grille and the radiator bottom mounting bracket.
2. Remove the starter motor and lock the engine in position by inserting a screwdriver blade or similar between the flywheel ring gear and transfer housing.
3. With the engine locked, loosen and withdraw the crankshaft pulley bolt. Fit the trigger wheel and boss assembly onto the crankshaft pulley. At this point the lock ring which clamps the trigger wheel onto the boss should only be finger tight, so that the trigger wheel can still be rotated. Fit the supplied extended crank bolt, apply thread locking compound and tighten to 150lbft.
4. Refit the starter motor.
5. Install the crankshaft position sensor and bracket using the timing cover bolts.
6. Ensure that the crankshaft position sensor is aligned with the trigger wheel and set the gap between the crankshaft sensor and the trigger wheel to 0.8-1.0mm using washers between the sensor and bracket to adjust the gap.
7. Set the engine to top dead centre (TDC), indicated by a notch on the crankshaft pulley and pointer on the timing cover.
8. Rotate the trigger wheel until the gap in the teeth aligns with the crankshaft position sensor, then rotate the wheel clockwise (in the direction of engine rotation) by 9 teeth. The centre of the sensor should be aligned exactly with the centre of the 9th tooth after the gap. (This corresponds to 90 degrees as the teeth are 10 degrees apart).
9. Lock the wheel to the boss by tightening the locking ring, ensuring that the wheel doesn't move relative to the crank. After tightening, recheck the position of the wheel. If it has moved, loosen the locking ring and repeat the procedure steps 7-9.