



NGK 6510 Spark Plugs

*2007-2013 Mazdaspeed 3, 2006-2007 Mazdaspeed 6,
2007-2013 Mazda CX-7 Turbo*

INSTALLATION INSTRUCTIONS:

1. Remove your TMIC (if present). Follow Section 1 of the instructions at this link for details: <https://corksport.com/support/instructions/Gen-6-930-WEB.pdf>
2. Remove your coil packs. Disconnect each connector then remove the 8mm bolt that holds each coil pack in position. Once removed, the coil pack will come free with a small pull.
3. Remove the existing spark plugs using a 5/8" spark plug socket. A 16mm regular socket and magnet can also be used but care must be taken to prevent damage.
4. Install the new NGK 6510 spark plugs using a 5/8" spark plug socket. Hand thread in the plugs as they can easily cross thread.
5. Tighten each plug to **89-123in-lbs. (7-10ft-lbs.)**. Overtightening can damage the plug and/or engine.
6. Reinstall all components that were removed.

ADJUSTING SPARK PLUG GAP:



CorkSport gaps all plugs to 0.026" before shipping. Most applications will work perfectly with this gap. If you need to adjust your gap tighter for your setup per your tuner, follow the instructions below before installation.

1. Install your spark plug into your gapping tool as shown to the right. While we strongly recommend using a gapping tool, if you do not have one, the plug gap can be reduced by gently tapping the end of the spark plug on a table or other wooden surface.
2. Slowly reduce the gap of the spark plug. We recommend checking gap frequently as it is much easier to reduce the gap than to open it back up.
3. Check spark plug gap using a feeler gauge as shown below. Ensure tension is removed from the gapping tool prior to gap size check.
4. Once the correct gap is achieved, the feeler gauge of the desired gap will fit between the electrode and ground snugly, with some slight resistance when moving the feeler gauge around.

