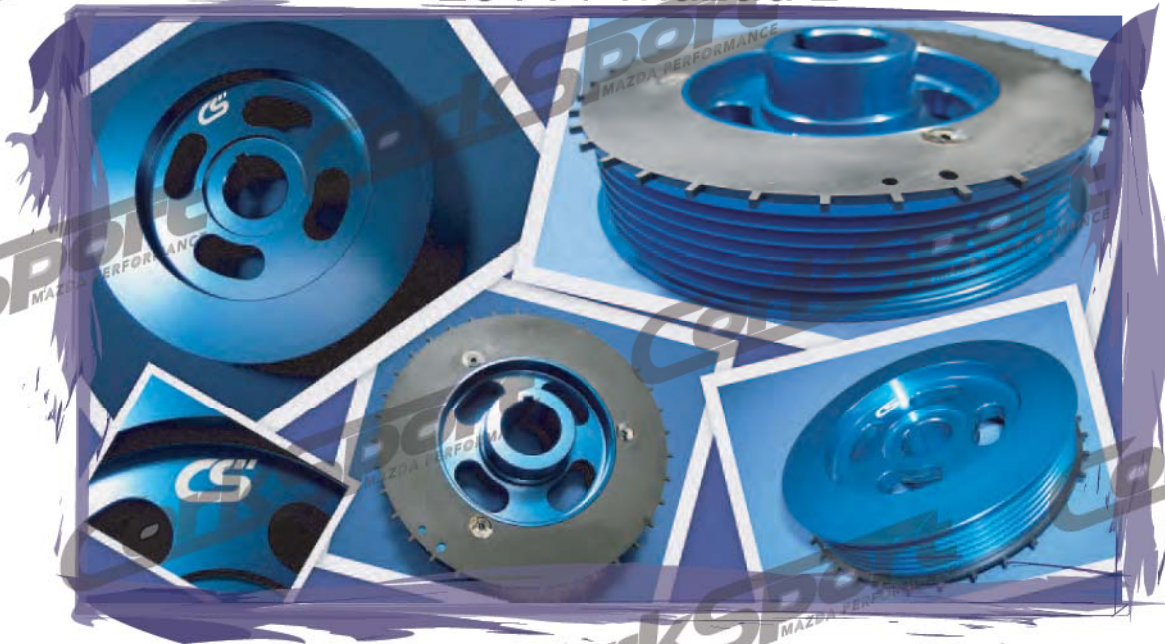


CorkSport Lightweight Crank Pulley 2011+ Mazda 2



M
Z
2
1
6
1
3
1
0



WARNING: You will be removing the engine's accessory belt and crank pulley. These are vital parts of your engine. Only proceed with this install if you are comfortable with removing these components and reinstalling them.



WARNING: Improper installation will cause a check engine light (CEL) on your vehicle. Please proceed with caution and take your time to ensure everything is installed correctly.



NOTE: When working on your car, you should be wearing mechanics gloves or other form of hand protection as well as ANSI Approved Safety Glasses.



NOTE: These instructions were written as a general guide only on a 2011 model year and the use of a factory service manual is highly recommended. Please read these instructions thoroughly prior to starting installation. If you have a different model year, the pictures and steps may vary slightly, but the overall installation process will remain the same.

Part Number: Mz2-6-310 Time Estimate: 45-60 min. Wrench Rating: 2/5	Model Mazda 2	Year 2011+	Trim 1.5 liter
TOOLING LIST: 3/8 Drive Ratchet 1/2" Impact Gun 10 mm Socket 14mm Socket 17mm Socket 21 mm (1/2" drive) Impact Socket Jack & Jackstands Oil (a few drops from the engine dipstick will suffice)		PARTS LIST: 1x CorkSport Blue Anodized Aluminum Lightweight Crank Pulley	







For help with installation, call 360-260-CORK (2675)

Installation Instructions:

CorkSport Lightweight Crank Pulley

2011 Mazda 2

How the Instructions Work

To best cover all of our customers experience levels and familiarity with the systems on their Mazda, we have broken our instructions down into numbered steps, each of which has the core information in the header with additional detail as needed depending on your experience. If you have a high level of experience, you can just use the checklist below and then skip to the step number where you need help or assistance. Video assistance may also be available for certain steps and is indicated by the HD icon:  Areas where there is a safety concern are indicated by the warning icon:  Cautionary areas (where parts are fragile, etc) are indicated by the caution icon:  Key tips are indicated with the light bulb icon: 



Overview/Checklist:

This is an overview of each of the steps of the build. You can use this as a reference and a checklist as you button up the work on the car.



1. Support car on Floor Jack/Jackstands or Lift

- Use a floor jack or jackstands to gain access to the underside of the vehicle.

2. Installing the Lightweight Crank Pulley

- 2a) Remove the front passenger's side wheel
- 2b) Remove plastic belt splash guard (see [Figures 1A & 1B](#))
- 2c) Place a jack and small block of wood under the engine and raise the jack until it touches the oil pan
-  The engine is still supported by other engine mounts and will not fall out with the one mount unbolted
- 2d) Remove the three (3) 14mm nuts holding the engine to the motor mount (see [Figure 1C](#))
- 2e) Slowly lower the jack until you have complete access to the crank pulley bolt
- 2f) Rotate the auto-tensioner clockwise and remove the belt from the crank pulley
- 2g) Remove the crank pulley bolt
- 2h) Carefully remove the stock pulley
-  Note: If needed, you may carefully pry the pulley loose, but be sure not to bend any pulley teeth

3. Installing the CorkSport Lightweight Crank Pulley

- 3a) Install the CorkSport Lightweight Crank Pulley as shown in [Figure 2A](#)
- 3b) Place a small amount of oil on the threads of the crank bolt and install the bolt. Then tighten to 90 ft-lbs
- 3c) Reinstall the accessory belt by rotating the auto-tensioner clockwise and then sliding the belt back onto the crank pulley
-  Note: Inspect the entire length of the belt to ensure it is properly reinstalled
- 3d) Reinstall the belt splash guard as shown in [Figure 1B](#)
- 3e) Slowly raise the engine back up into place being sure that all three (3) engine mount bolts line up with the engine mount (see [Figure 2B](#))
-  Note: Make sure that the bolt threads do not catch on the holes or you may strip them
- 3f) Slowly lower the jack and remove it from under the vehicle
- 3g) Reinstall the front passenger's side wheel being sure to tighten the lug nuts
- 3h) Remove the vehicle from the jackstands/lift and start the engine. Ensure that the belt is rotating freely and is centered on all of the pulleys

Installation Instructions: CorkSport Lightweight Crank Pulley 2011+ Mazda 2

1: Support Car on Floor Jack/Jackstands or Lift

Use a floor jack and jackstands to gain access to the underside of the vehicle.

⚠ Always refer to the floor jack and jackstand manufacturers instructions as well as the factory owners manual for your vehicle to determine jacking points and support points. Alternately, use an automotive lift to gain access to the underside of the vehicle. Redundant support mechanisms are recommended.

2: Removing the Stock Crank Pulley

A) Remove the front passenger's side wheel

B) Remove the belt splash guard (shown by the red oval in Figure 1A) by removing the two (2) 10mm bolts (shown in Figure 1B) using a ratcheting wrench and 10mm socket.

C) Carefully place a jack under the the engine. Place a small block of wood, or similar on the jack and raise it until it just touches the oil pan and lock the jack in place.

⚠ The engine is still supported by the other engine mounts and will not fall out with the mount undone.

D) Locate the three (3) 14mm nuts on the passenger's side engine mount (red circles in Figure 1C) and remove them using a ratcheting wrench and 14mm long socket.

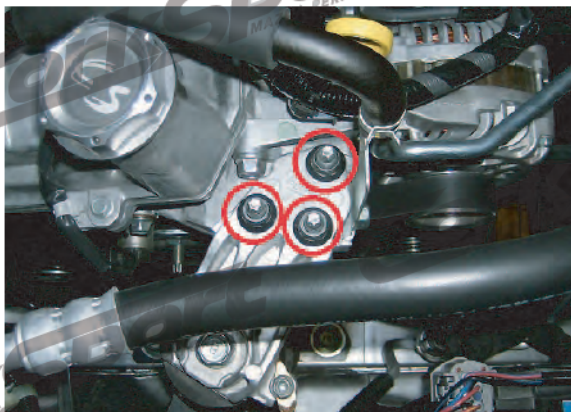


Figure 1C

G) Remove the crank pulley bolt (shown in Figure 1D by the green circle) by using a 1/2" impact gun and 21mm impact socket.

H) Carefully remove the stock pulley.

⚠ Note: The pulley may take some force to remove. You can carefully use a small prying tool and work your way around the pulley until it comes loose. If you do this, be very careful not to bend any trigger wheel teeth in the process.



Figure 1A



Figure 1B

E) Slowly lower the jack until you have complete access to the crank pulley bolt and auto-tensioner.

F) place a 14mm socket and ratcheting wrench on the auto-tensioner bolt (shown by the red circle in Figure 1D) and rotate clockwise until you are able to remove the belt from the crank pulley.



Figure 1D

Installation Instructions: CorkSport Lightweight Crank Pulley 2011+ Mazda 2

3: Installing the CorkSport Lightweight Crank Pulley

A) Install the CorkSport Lightweight Crank Pulley being sure to line up the keyed parts as shown in **Figure 2A**.

B) Place a small amount of oil on the crank pulley bolt and reinstall the bolt. Tighten the bolt to 90 ft-lbs using a torque wrench or impact gun and 21mm socket.

C) Reinstall the accessory belt by rotating the auto-tensioner clockwise and then sliding the belt on the crank pulley (see **Figure 1D**).

Note: Inspect the entire length of the belt to ensure that the belt is properly seated back on to all the pulleys.

D) Reinstall the belt splash guard as shown in **Figure 1B** by reusing the two (2) 10mm bolts and securing them into place by using a 10mm socket and ratcheting wrench.

E) Slowly raise the engine back up into place being sure that all three (3) bolts line up with the passenger's side engine mount (see **red arrows** in **Figure 2B**).

Note: If the bolt threads seem to be catching on the engine mount holes, lower the jack, realign the bolts, and repeat step 3E. Take your time with this to ensure that you do not strip out the bolts.

F) Slowly lower the jack and remove it from under the vehicle.

G) Reinstall the front passenger's side wheel being sure to tighten the lug nuts.

H) Remove the vehicle from the jackstands/lift and start the engine. Check and make sure that the belt is rotating freely and is centered on all of the pulleys.

Your CorkSport Lightweight Crank Pulley is now Installed. Enjoy.



Figure 2A

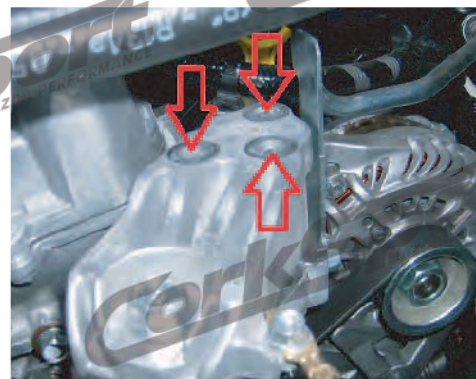


Figure 2B