

2009-2013 Mazda Mazda6 | Easy | 30-60 minutes

TOOLS

Floor jack and two jack stands (or car ramps) Socket set for splash shield fasteners Oil filter cap wrench (76mm, 15 flute) Oil drain pan (at least 6 quarts) Funnel Nitrile gloves Safety glasses Shop rags

PARTS

Engine oil (5W-20 for most 2009-2013 2.5L; approx. 5.0 US quarts; verify with dipstick) Cartridge oil filter element with O-ring kit Oil drain plug washer

STEPS

- 1 Warm the engine and set up - Drive the Mazda6 for 5 to 10 minutes so the oil warms up and drains quickly, then park on a flat surface and engage the parking brake. Pop the hood and remove the oil filler cap so air enters the crankcase and the oil flows out smoothly. A...**
- 2 Raise the front and support it safely - Raise the front of the Mazda6 with a floor jack** on the front subframe and set jack stands under the reinforced pinch welds, then lower the car onto the stands. Ramps are a convenient option on the Mazda6. Shake the car firmly before slidin...
- 3 Remove the engine splash shield - The 2009-2013 Mazda6 has a plastic underbody splash shield secured with bolts and clips, so remove the fasteners and drop the shield to expose the drain plug and cartridge filter housing. Keep the hardware in a tray for reassembly. This sh...**
- 4 Drain the oil from the pan - Slide a drain pan under the oil drain plug on the oil pan** and loosen the plug, finishing the last turns by hand while pressing inward so the oil stream stays controlled. Allow 10 to 15 minutes for the oil to drain to a slow drip. Note that...
- 5 Remove the cartridge filter housing cap - On the 2.5L four-cylinder, the cartridge filter housing sits on the engine where the drain pan can catch its oil, so loosen the plastic housing cap with a 76mm 15-flute oil filter wrench. Unscrew the cap slowly, let the trapped oil drain,...**
- 6 Install the new filter element and O-ring - Seat the new O-ring from the kit into the groove on the housing cap, coat it lightly with fresh oil, and press the new cartridge element into place. Thread the cap back on by hand first to be sure it starts square, then tighten it with the...**
- 7 Reinstall the shield and refill the oil - Reinstall the splash shield with its bolts and clips, then lower the Mazda6 back onto level ground. Place a funnel in the filler neck and pour in the correct oil, about 5.0 US quarts for the 2.5L, then reinstall the filler cap. Start the e...**
- 8 Check for leaks and log the service - Let the engine idle while you look underneath for any drips at the drain plug and filter housing, then shut it off and do a final dipstick check. Record the date and mileage in your maintenance log, since this generation has no electronic...**