

BATTERY REPLACEMENT GUIDE FOR FORD C-MAX MkII (2003-2010)

TOOLS REQUIRED:

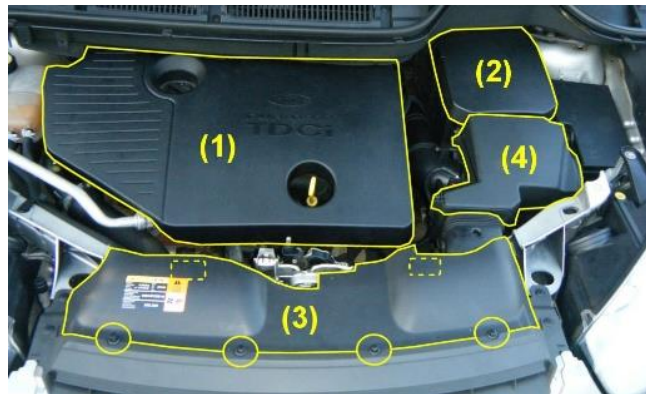
- Phillips #2 / cross-point screwdriver.
- 10mm (preferably a deep reach socket), 8mm and 7mm sockets.
- ¼" Drive ratchet handle with a 2-4" extension.



1. The tools I used

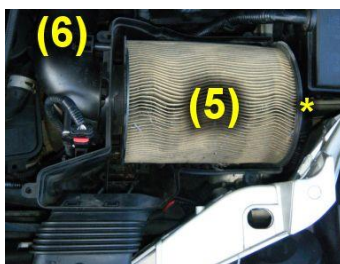
BATTERY REMOVAL PROCEDURE:

1. Remove the Engine Cover (1). Remove the Battery Cover (2). Unclip the Radiator Cover (3) rear clips (dashed boxes), and loosen the stud fasteners (circled).
2. Lift the back edge of the Radiator Cover (3) up so that it is free to move above the air intake pipe that goes from under it to the Air Filter Box (4) – We'll need this to be free later on to give us some "wobble room".



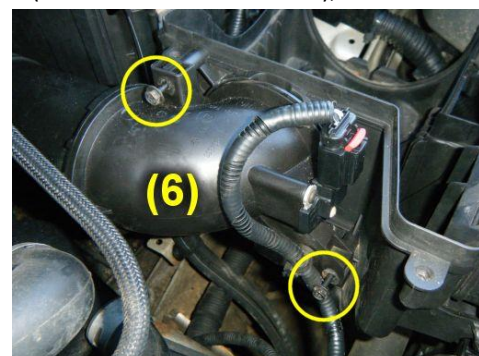
CAUTION: I would advise that you do not carry this out in just above freezing temperatures or lower, as the plastic parts become brittle and can break. If this cannot be avoided, take care and try to avoid deforming the plastic parts (this may require additional components to be removed).

3. Remove the Air Filter Box cover (4) by loosening the four 7mm bolts until they are free to turn by hand. The bolts do not need to be removed completely as they should stay attached to the Air Filter Box cover when removed. Now lift the cover upwards to remove it.



4. To remove the Air Filter (5), lift the right end (marked *) upwards (looking rearwards). This will release it from the Air Intake Pipe (6). If your filter looks a bit brown like this one (and is full of dust and fluff), I'd advise on replacing it soon.

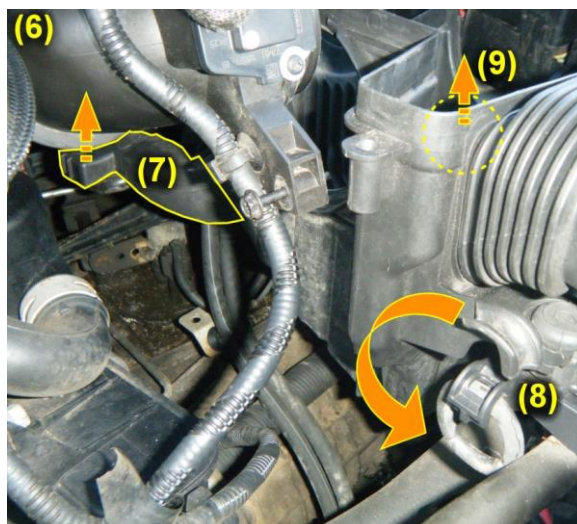
5. Now undo the two 7mm bolts (circled) attaching the Air Intake Pipe (6) to the Air Filter Housing, so they are free to turn by hand (as per step 3. No need to remove them fully). Pull the Air Intake Pipe to the left (looking rearwards) to release it from the Air Filter Housing.



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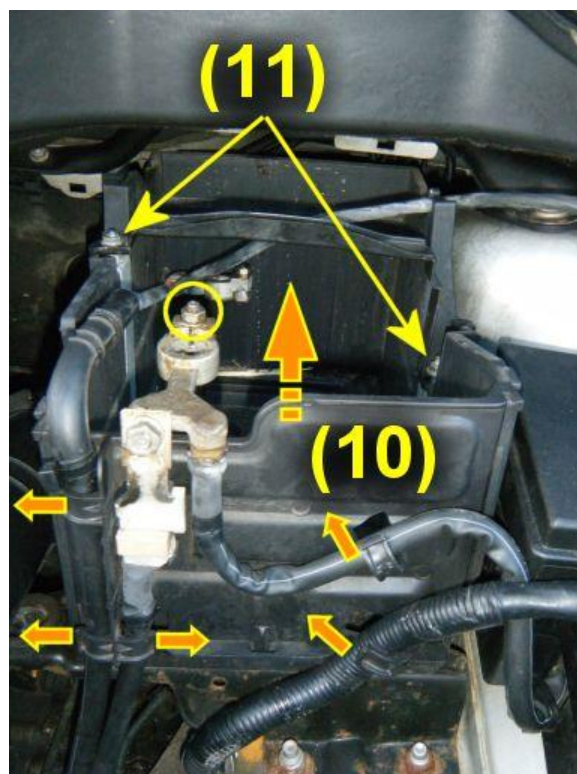
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6. Lift the Air Intake Pipe (6) upwards slightly, and underneath it you'll see an arm (7) coming off of the Air Filter Housing (9). Pop the arm off of the metal bracket below it by pulling it upwards. Do the same for the other pop mount (dashed circle near the "(9)"). This will make it easier to release the big rubber band (8), which is shown released in the picture.
7. Now for the fiddly bit! Pull the forward Air Intake Duct upwards (the one that goes under the radiator cover), so that it disconnects from the Air Filter Housing (9) ... then wiggle, twist and lift the Air Filter Housing (9) so it comes out. You may need an extra pair of hands to hold the Air Intake Pipe (6), as well as the forward Air Intake Duct out of the way.
8. Nearly there! Pop all of the wires out of the clips on the Battery Front Cover (10).



CAUTION: When disconnecting the first battery terminal, it may produce a spark. Keep all flammable materials away from the battery at all times.

9. Disconnect the Battery Positive Terminal Connector by loosening the 8mm nut (circled) until you can easily lift the Connector free of the Battery Terminal. Pull the Battery Terminal Connector towards you so that it does not touch the Battery Terminal when you release it.
10. Wiggle and lift the Battery Front Cover (10) out of the way – it should come out easily.
11. Loosen / remove the two 10mm nuts (11) that hold the Battery Retaining Bar against the Battery. Remove or reposition the Bar so the Battery is free to slide forwards.
12. Push the wires at the front of the Battery downwards / to the side and slide the Battery towards you until you can reach the Negative Terminal Connector. Remove the Negative Terminal connector in the same way as you removed the Positive Terminal Connector (loosen the 8mm nut).
13. Slide and lift the Battery out.



BATTERY INSTALLATION PROCEDURE:

Installation is the reverse of removal, with a few points to bear in mind along the way:

- A. Ensure the Negative Terminal of the Battery is at the end that goes into the Battery Box first!
- B. When reconnecting the Battery Terminals, it is advisable to smear a small amount of grease all over the metal parts of the Terminal and Connector to prevent corrosion. Ensure Connectors are tight.
- C. Fit the new Battery as close to the Battery Front Cover (10) as possible (without touching it), otherwise the Positive Terminal Connector will not be able to reach the Battery Terminal.