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Installation Instructions

Aluminium Radiator Mazda MX-5 NC

Date:	31.08.2021	Revision:	0
Editor:	Nico Hafner	Vehicle:	Mazda MX-5 NC

Scope of delivery:

- SPS Radiator fitting MX-5 NC

Warning:

Please read this instruction before installation and get in touch with the work on the car! Ideally, have the installation done by a professional workshop. Tighten all screws with the torque recommend by the manufacturer. The assembling company is liable for installation mistakes. In case of manufacturing defects, the corresponding components will be replaced without any costs within the warranty period.

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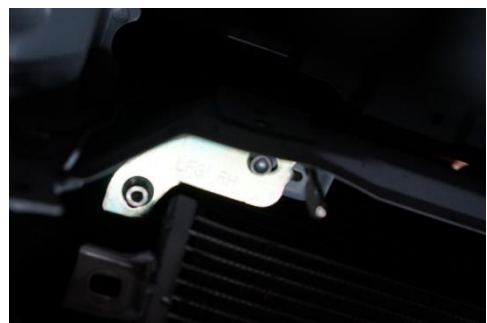
Preparation:

- Park the vehicle, switch off the engine and let the engine cool down
- Open the hood
- Remove the bottom tray
- Remove the air filter housing
- Remove the coolant overflow container (there might be coolant dripping out of the container, do not get any electric parts get in contact with the coolant)
- Remove the battery
- Remove the battery housing
- Remove the engine ECU
- Remove the engine ECU bracket



Removing the OEM radiator:

- Disconnect the fan wires
- Remove the coolant hoses from the fan shroud
- Remove the fan from the radiator
- Loosen the AC radiator and the power steering cooler from the radiator
- Place a drain pan underneath the lower radiator hose
- Loosen the hose clamp of the lower radiator hose and remove the hose from the radiator, *from this moment coolant will start draining out of the radiator and the engine*
 - ➔ Please do not use the OEM drain plug in the radiator, because it most likely will get damaged
- Loosen the hose clamp of the upper radiator hose and remove the hose from the radiator
- Remove the radiator side of the connection hose from the radiator to the overflow container. You can put this hose into the overflow container to avoid coolant dripping into your engine bay
- Loosen the upper left and right fastening point of the radiator to the car (L-shaped brackets)
- On the lower side the radiator sits in rubber bushings, remove those too
- Carefully remove the radiator from the engine bay



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Preparation of the new radiator:

- Place the lower rubber bushings on the new radiator



Installing the new radiator:

- Carefully move the radiator into the engine bay watch out that the radiator sits right
- Tighten the upper and lower mounting points
- Mount the AC radiator and power steering cooler
- Connect the lower radiator hose to the radiator and tighten the hose clamp
- Connect the upper radiator hose to the radiator and tighten the hose clamp
- Connect the connection hose between overflow container and radiator to the radiator
- Carefully place the fan in the engine bay and connect it to the radiator
- Connect the fan wires to the fan
- Tighten the coolant hoses to the fan shroud
- Tighten the engine ECU bracket
- Place the engine ECU, plug it in and tighten the screws
- Tighten the battery housing
- Tighten the battery
- Tighten the coolant overflow container
- Tighten the air filter housing
- Fill the cooling system with fresh coolant mixture using the overflow container



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Venting the cooling system:

- Fill the overflow container with coolant mixture
- Open the filling cap of the overflow container and pump with your hand on the upper radiator hose to get the first air out of the system. Always refill the system with fresh coolant mixture while doing this
- As soon as there don't come any air bubbles out of the system anymore, you can start the vehicle
 - ➔ Leave the fill cap open while doing this
- Let the engine get to it's operating temperature with heating on full hot, possibly refill coolant mixture to the radiator
- At this moment you can also check if your fan wiring is working properly, as this should start after a few time
- Always watch for the coolant temperature while the engine runs
- As soon as the car has been vented fully and is in it's operating temperature, you can close the overflow container filler cap and shut down the engine

Final work on the vehicle:

- Check for leaks at every connection you were working on
- Install the bottom tray
- Check the coolant level after going on a test drive

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