Installation of Mazda Mazda3 Sedan Reverse Camera

By Matthew Whitecotton
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Parts
First, you must acquire the proper OEM parts for installation.

Parts numbers:

BHN1-67-RC0A (Camera)

BJS9-67-060 (Harness/wiring replacement)

These parts can be purchased from https://www.mazdaswag.com/

Additional useful resources include the Mazda Mazda3 OEM service manual
The service manual can be found at: https://onedrive.live.com/?cid=3FBFA25C509C5655&id=3FBFA25C509C5655%21220&parId=root&o=OneUp

Installation
Ensuring the car is safe to operate upon:
1. Open the Mazda3’s hood, and locate the battery.
2. Detach the negative battery wire from the terminal by loosening the associated nut and clamp.
3. Move wire away from the car’s battery or other conductive metal surfaces in the engine area.

Camera Installation:
1. In the trunk of your Mazda3, remove the plastic clips that secure the trunk lining to trunk lid. This removal occurs most easily by grasping and drawing the round interior portion of the clip outward, either via fingernail or a prying motion using a screwdriver.
2. Remove all clips from the trunk lid area, this should loosen the lining and permit observation of the underlying wiring. The trunk lining is not fully removable, do not try to fully detach it.
3. Grasp and follow the thick black wiring you uncover down and toward the left side of the car’s trunk, and remove plastic clips and lining as required to continue following the black wiring harness. Continue this process until you reach an attachment point on the wiring harness that connects the trunk wiring to the main cabin wiring. This attachment point should not be too deep in the car.
4. Detach the trunk’s current wiring harness from the cabin wiring attachment point. Use this location as a starting point for the new wiring harness BJS9-67-060.
5. Follow the exact path of the old wiring harness using BJS9-67-060, removing the old harness from physical attachment points on the trunk’s metal support bars and attaching the new harness to the exact holes previously occupied by the old harness.
6. Locate the plastic cover on the inside and outside of your trunk lid that will be replaced with your new BHN1-67-RC0A backup camera assembly.
7. Squeeze the sides of this plastic cover from the inside of your trunk lid, detaching the plastic cover and allowing you to remove it.
8. Insert the camera assembly into the hole wiring first, being careful to ensure the camera faces outward toward the street.
9. Attach the wiring portion of the camera assembly to the new wiring harness BJS9-67-060.
10. Detach all remaining trunk wiring components from the old wiring harness and reattach to the new wiring harness. Once completed, fully remove the old harness from the trunk work area.
11. Attach the new wiring harness to the cabin wiring attachment point in the side of the trunk.
12. Reattach the negative battery wire to the negative terminal.
13. Start car. Check and test brake lights, reverse lights, and back up camera (put car into reverse) for proper function. If any issues are detected, isolate issue and check associated wiring attachments to ensure proper connection.
14. Reattach all lining inside the trunk and on the trunk lid using original plastic clips.

Congratulations, you have just installed your own OEM reverse camera on your Mazda3 Sedan!