

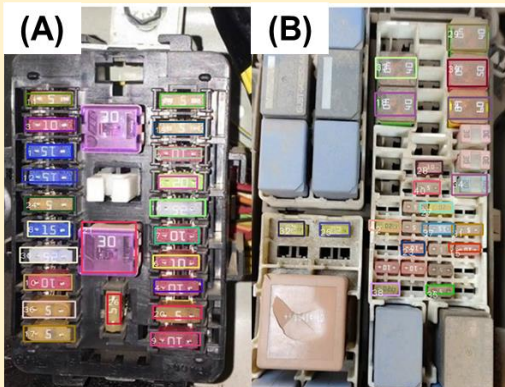
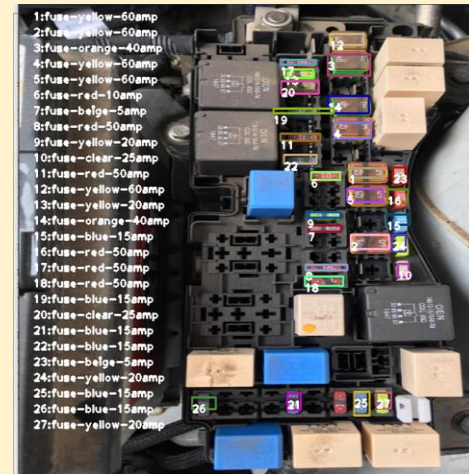
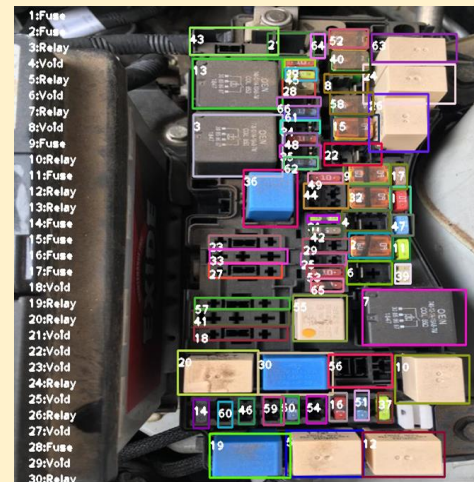


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Fuse box assembly inspection and fault detection using image processing, and AI/ML.

- Solution to manual inspection of fuse boxes by implementing an automated optical inspection utilizing deep learning and computer vision
- The current inspection system can detect blurred images, i.e., from a regular webcam images of the fuse, and does not require a high-quality camera
- The software works for both image and video input, where real-time inspection is possible in fuse box manufacturing industries
- The model yielded 100% accuracy with an inspection time of 45 seconds
- Identification of automobile model from the fusebox image
- Detection of fuses, relays, and voids in fusebox using object detection technique
- Color detection and hence predicting ampere rating of fuses using object detection
- Fault detection in the positioning using image processing technique.



Automobile application