Solutions

Issue 77

EMP TECHNICAL GROUP

RFID to Barcode Match Code

Challenge: While installing an RFID project, EMP Engineers discovered a snag in the customer's operations. The products themselves were being labeled with RFID tags, but no one could verify if the tags were on the correct product.

Solution: A three-tiered system. An RFID tag to locate the product once moved through production, a 1D barcode (that's already in the VIN) that an employee would scan to verify that the RFID label was placed on the correct product. And finally, an MCL application that would facilitate the verification process for both.

MCL TECHNOLOGIES

Story: As EMP was testing out an RFID solution they had recently installed in a vehicle manufacturing facility, they realized there were gaps in the facility's operations. This particular gap was revealed based off of a question from one of our engineers. "How are you verifying that the RFID labels you're applying are correlated to the correct vehicle with the correct information encrypted?". Well, they weren't. Which then led EMP to applying a Barcode Match Code solution using a custom program (built using MCL Technologies Software) that would verify both the RFID label and the VIN barcode. The VIN Barcodes could also be read with the same MC3300RFID reader being used to test the RFID tags. So now there are two forms of identification, but intertwining so that the procedure is not only free of errors, but efficient. Sometimes solutions can be complicated, but with outside the box thinking this particular situation became a simple correction. Scan the VIN on the vehicle that is barcoded and then read the RFID tag to ensure that the correct RFID tag was put on the vehicle. Get the green light from the MCL Software and you're good to go.