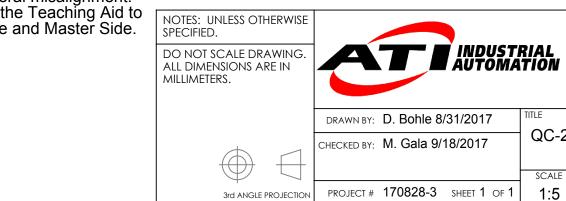


+ Z Direction

Step 4:

Step 7: Record the robot coordinates from Step 6. A correction must now be made to the Axial Tool Coordinate to account for the thickness of the Tool and Master Side Teaching Aids. Only in this way can the correct "Pick-up" and "Replacement" coordinates be determined. Perform the following calculation to determine the "Pickup" and "Replacement" location:

Z "Pick-up" Coordinate = (+ Z Coordinate from Step 6) - (50mm)



Step 5:

Move the Master Plate Assembly slowly downward until the Master and Tool Side Aids are approximately 1mm apart.



Adjust the position of the robot to correct for any lateral misalignment. Use the edges of the Teaching Aid to align the Tool Side and Master Side.

Initiator	Date
DJB	8/31/2017

Bring the Master Plate Assembly to a position directly over the Tool Plate Assembly. The Master Plate Assembly's face should be parallel to the Tool Plate Assembly's face. Ensure that the orientation of the Master and Tool assemblies are such that the Flat ID's correspond (i.e. 'A' Master to 'A' Tool, etc.).

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QC-210 TEACH3 Instruction Drawing

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5	В	9230-20-8004	01