



## ROBOSUIT™ INSTALLATION INSTRUCTIONS FOR THE FANUC M2000iA SERIES ROBOT

PRIOR TO INSTALLING THE ROBOSUIT™, CLEAN THE ROBOT SURFACE IF THE ROBOT HAS BEEN IN OPERATION WITHOUT ANY EFFECTIVE PROTECTION.

1. DISCONNECT ANYTHING THAT WILL INTERFERE WITH INSTALLATION. NORMALLY, END-OF-ARM TOOLING DOESN'T INTERFERE IF THE ROBOT'S FLANGE IS FACE-OUT.
2. PLACE THE ROBOT IN THE SYNC-ALIGNED (HOME) POSITION.
3. OPEN ALL ZIPPERS AND VELCRO SEAMS (EACH SUIT PIECE).
4. INSTALL THE STATIONARY BASE COVER SKIRT AROUND THE BASE AXIS (J1) AND CLOSE THE VELCRO SEAM. STAY BELOW THE JOINT. APPLY SUPPLIED VELCRO TO THE ROBOT (CORRESPONDING WITH THE MATING VELCRO ON THE TOP OF THE BASE COVER). A SECOND PIECE OF VELCRO MAY BE USED AT CUSTOMER DISCRETION (ALONG BOTTOM).
5. INSTALL THE LOWER ARM PIECE SECOND. MAKE SURE THE BELLOWS (ACCORDIAN-STYLE FOLDS IN THE SUIT) ARE PROPERLY ORIENTED SO THAT THE 2ND AND 3RD AXIS MOTORS FIT INTO THE TWO POCKETS OF THE LOWER ARM PIECE. SNAP THE POCKET BELTS SNUGLY AROUND THE MOTORS AVOIDING THE MOTOR CABLES. ZIP THE LOWER ARM CLOSED. CLOSE THE SNAP BAND BENEATH THE FIRST AXIS STATIONARY HARD STOP AND CLOSE THE SKIRT ZIPPER AROUND THE PORTABLE HARD STOP (IF APPLICABLE). LOOP THE BELT AROUND THE BOTTOM. TAKE UP THE EXCESS BELT MATERIAL THROUGH THE LOOPS. MAKE SURE THE ROBOT'S COUNTERWEIGHT IS POSITIONED INSIDE THE BELLOWED POCKET AND ADJUST THE TOP SUSPENDERS TO PREVENT DRAGGING BELLOWS ACROSS THE BASE OR THE HARD STOP.
6. NEXT, INSTALL THE WRIST PIECE. THERE ARE SNAPS AND VELCRO BEHIND THE WRIST AND AT THE FRONT END OF THE LINEAR ARM PIECES. THESE TWO PIECES MUST BE CONNECTED. **\*\*NOTE: THE WRIST CUFF UNDERLIES THE UPPER ARM PIECE. CLAMP THE WRIST PRIOR TO INSTALLING THE UPPER ARM (STEP 7).**
7. INSTALL THE UPPER ARM PIECE. POSITIONING THE TOOL FLANGE PERPENDICULAR TO THE ARM WILL FACILITATE INSTALLATION. ENSURE THE ZIPPER FACES DOWNWARD. CLAMP THE UPPER ARM BEHIND THE TOOL FLANGE IF THERE IS A POSSIBILITY THAT THE SUIT COULD SLIP OFF THE FLANGE AND INTERFERE WITH THE TOOLING. THE UPPER ARM PIECE OVERLAYS THE LOWER ARM PIECE AND WILL ROTATE WITH THE UPPER ARM. MAKE CERTAIN THE CLAMP DOESN'T INTERFERE WITH THE TOOL FLANGE ROTATION. THE



SUIT PIECE CAN ALSO BE CLAMPED APPROXIMATELY 12 INCHES IN FRONT OF THE 4TH AXIS. SNAP THE ZIPPER TAB.

8. RE-ATTACH TOOLING AND ELECTRIC/PNEUMATIC LINES. VELCRO PANELS HAVE BEEN INCORPORATED TO ACCESS THE ROBOT. CAREFULLY MAKE "CROSS HAIR" CUTS INTO EACH COVER (AS NEEDED) FOR BOLTS, CONNECTORS AND/OR AIR LINES.
9. CLEAR THE CELL OF ANY LADDERS, TOOLS OR OBJECT WHICH MAY SNAG THE SUIT. SLOWLY MOVE THE ROBOT ONE AXIS AT A TIME BEGINNING WITH THE WRIST (AXIS 6) AND ENDING AT THE BASE (AXIS 1). CORRECT ANY FIT PROBLEMS.

SHOULD YOU HAVE ANY QUESTIONS, PLEASE CONTACT ROBOWORLD.