



ROBOSUIT™ INSTALLATION INSTRUCTIONS FOR THE ABB IRB-4400 SERIES ROBOT

PRIOR TO INSTALLING THE ROBOSUIT™, CLEAN THE ROBOT SURFACE IF THE ROBOT HAS BEEN IN OPERATION WITHOUT ANY EFFECTIVE PROTECTION. DISCONNECT ANYTHING THAT WILL INTERFERE WITH INSTALLATION. NORMALLY, END-OF-ARM TOOLING DOESN'T INTERFERE IF THE ROBOT'S FLANGE IS FACE-OUT. IF POSSIBLE, PLACE THE ROBOT IN ITS SYNC ALIGNED (HOME) POSITION.

1. OPEN ALL ZIPPERS AND VELCRO SEAMS.
2. INSTALL THE BASE COVER FIRST. IT IS CONTOURED TO THE BASE SHAPE AND CAN ONLY ZIPPER CLOSE IF INSTALLED PROPERLY.
3. INSTALL THE LOWER ARM PIECE NEXT. MAKE SURE THE BELLOWS (FOLDS IN THE SUIT) ARE IN PROPER POSITION AND THAT THE 2ND AND 3RD AXIS MOTORS ARE INTO THE TWO POCKETS. SNAP THE POCKET BELTS SNUGLY AROUND THE MOTORS INCLUDING THE MOTOR CABLES. ZIPPER THE SUIT CLOSED. LOOP THE BALANCING UNIT BELT SNUGLY AROUND THE BOTTOM. TAKE UP THE SUPPLIED FIBERGLASS RODS AND INSERT THEM THROUGH THE LOOPS AND INTO THE CORNER POCKETS OF THE BOTTOM SIDE WAIST FOLD.
4. INSTALL THE UPPER ARM PIECE NEXT WITH THE ZIPPER ON THE BOTTOM. POSITIONING THE TOOL FLANGE PERPENDICULAR TO THE ARM WILL FACILITATE INSTALLATION. CLAMP THE UPPER ARM PIECE IN FRONT OF THE 4TR AXIS OVERLAP. THE UPPER ARM PIECE OVERLAYS THE LOWER ARM PIECE AND WILL ROTATE WITH THE UPPER ARM. MAKE CERTAIN THE CLAMP DOESN'T INTERFERE WITH ARM ROTATION. SNAP THE ZIPPER TAB. NOTE: SOME ARM SUITS ARE TWO PIECE—IF YOURS IS, THERE ARE SNAPS AND VELCRO BEHIND THE WRIST AND AT THE FRONT END OF THE LINEAR ARM PIECES. THESE TWO PIECES MUST BE CONNECTED.
5. ATTACH ALL TOOLING AND RECONNECT ALL ELECTRIC/PNEUMATIC LINES THAT WERE DISCONNECTED. IF YOUR SUIT WAS CUSTOMIZED, VELCRO PANELS HAVE BEEN INCORPORATED TO ACCESS THE ROBOT. CAREFULLY MAKE "CROSS HAIR" CUTS INTO THEM AS NEEDED FOR BOLTS, CONNECTORS AND AIR LINES.
6. MAKE SURE THERE ARE NO OBJECTS FOR THE SUIT TO SNAG BEFORE PUTTING THE ROBOT INTO MOTION.
7. SLOWLY MOVE THE ROBOT ONE AXIS AT A TIME BEGINNING WITH THE WRIST (AXIS 6) AND ENDING AT THE BASE (AXIS 1) WHILE CHECKING FOR ANY FIT PROBLEMS.

SHOULD YOU HAVE ANY QUESTIONS, PLEASE CONTACT ROBOWORLD.