



## **ROBOSUIT™ INSTALLATION INSTRUCTIONS FOR THE ABB IRB-6400/6400R 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.
2. INSTALL THE LOWER ARM PIECE FIRST. MAKE SURE THE BELLOWS (FOLDS IN THE SUIT) ARE IN PROPER POSITION AND THAT THE 2ND AND 3RD AXIS MOTORS ARE IN THE TWO POCKETS. SNAP THE POCKET BELTS SNUGLY AROUND THE MOTORS AVOIDING THE MOTOR CABLES. ZIPPER THE SUIT CLOSED. CLOSE THE SNAP BAND BENEATH THE FIRST AXIS STATIONARY HARD STOP AND CLOSE THE SKIRT ZIPPER AROUND THE PORTABLE HARD STOP (IRB6400 ONLY). LOOP THE BELT SNUGLY AROUND THE BOTTOM. TAKE UP THE EXCESS BELT MATERIAL THROUGH THE LOOPS. MAKE SURE THE ROBOT'S COUNTERWEIGHT IS INSIDE THE BELLOWED POCKET AND ADJUST THE TOP SUSPENDERS TO PREVENT SNAGGING OF THE BASE OR THE HARD STOP.
3. 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 BEHIND THE FLANGE IF THERE IS A POSSIBILITY 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 FLANGE ROTATION. THE SUIT PIECE CAN ALSO BE CLAMPED APPROXIMATELY 12 INCHES IN FRONT OF THE 4TH AXIS. SNAP THE ZIPPER TAB. NOTE: SOME ARM SUITS ARE TWO PIECE. IF YOUR'S 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.
4. 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.
5. MAKE SURE THERE ARE NO OBJECTS FOR THE SUIT TO SNAG BEFORE PUTTING THE ROBOT INTO MOTION.
6. 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.