



## **ROBOSUIT™ INSTALLATION INSTRUCTIONS FOR THE ABB IRB 1400 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. ATTACH THE SUPPLIED J4 MOTOR COVER TO PROTECT THE SUIT FROM THE ROTATING MOTOR. REMOVE OR COVER THE LIFTING PLATES AT THE WWER END OF THE SPRINGS WITH THE SUPPLIED COVERS TO PREVENT TEARING.

1. OPEN ALL VELCRO SEAMS AND 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 INTO THE TWO POCKETS. INSIDE THE POCKETS ARE BELTS. SECURE THEM AROUND THE MOTORS (BETWEEN THE MOTOR AND THE CABLES). ZIPPER THE SUIT CLOSED AND LOOP THE BELT AROUND THE BOTTOM (OPTIONAL).
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 CM IN FRONT OF THE 4TH AXIS. 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 CUT INTO THEM AS NEEDED.
4. MAKE SURE THERE ARE NO OBJECTS FOR THE SUIT TO SNAG BEFORE PUTTING THE ROBOT INTO MOTION.

SHOULD YOU HAVE ANY QUESTIONS, PLEASE CONTACT ROBOWORLD