



ROBOSUIT™ INSTALLATION INSTRUCTIONS FOR THE SAMSUNG AM1 ROBOT

PRIOR TO INSTALLING THE ROBOSUIT, CLEAN THE ROBOT SURFACE—ESPECIALLY 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.
2. MOVE THE ROBOT TO THE "HOME" POSITION IF POSSIBLE.
3. OPEN ALL ZIPPERS.
4. IF YOU PURCHASED A BASE COVER, INSTALL IT FIRST. IT IS CONTOURED TO FIT THE BASE SHAPE WHERE THE CABLE CONNECTIONS ATTACH. IT IS HELD IN POSITION WITH A WEB BELT WHICH LOOPS AROUND THE BASE CASTING.
5. INSTALL THE LOWER ARM PIECE NEXT. MAKE SURE THE BELLOWS (ACCORDIAN-STYLE FOLDS IN THE SUIT) ARE PROPERLY POSITIONED, AND THAT THE 2ND AND 3RD AXIS MOTORS FIT INTO THE TWO POCKETS OF THE LOWER ARM. INSIDE EACH POCKET IS A STRAP TO SECURE THE SUIT TO THE ROBOT. PASS THE STRAPS BETWEEN THE MOTORS AND CABLES AND TIGHTEN. ZIPPER THE SUIT CLOSED. IF YOUR SUIT HAS A BELT, LOOP THE BELT AROUND THE BOTTOM OF THE LOWER ARM, AND TIGHTEN IT MAKING SURE ANY EXCESS BELT MATERIAL IS SECURED.
6. IF YOUR ROBOT HAS A COUNTERWEIGHT, POSITION IT WITHIN THE BELLOWED POCKET OF THE LOWER ARM. A SKIRT BAND IS INCLUDED THAT WRAPS AROUND THE ROTATING BASE (IF NEEDED).
7. INSTALL THE UPPER ARM PIECE. POSITION THE TOOL FLANGE PERPENDICULAR TO THE UPPER ARM. ****NOTE: THE UPPER ARM PIECE OVERLAYS THE LOWER ARM PIECE AND WILL ROTATE WITH THE UPPER ARM. THE ZIPPER MAY BE ORIENTED UP OR DOWN. DRAPE THE UPPER ARM COVER OVER THE ROBOT. CLAMP THE UPPER ARM PIECE BEHIND THE TOOL FLANGE. MAKE CERTAIN THE CLAMP DOESN'T INTERFERE WITH FLANGE ROTATION. THE SUIT PIECE CAN ALSO BE CLAMPED APPROXIMATELY 4 INCHES IN FRONT OF THE "R" AXIS. SNAP THE ZIPPER TAB. ADJUST THE SUSPENDER AT THE SHOULDER TO PREVENT THE BOTTOM OF THE (LOWER ARM) BELLOWS FROM SNAGGING OR RUBBING ON THE STATIONARY BASE (OR FROM BEING CAUGHT BETWEEN THE COUNTERWEIGHT AND LINK ROD).**
8. RE-ATTACH TOOLING AND RECONNECT ELECTRIC/PNEUMATIC LINES. VELCRO PANELS HAVE BEEN INCORPORATED TO PROVIDE ACCESS TO THE INTEGRATED CONNECTIONS. CAREFULLY CUT INTO THE PANELS AS NEEDED ("CROSSHAIR" INCISIONS "X" OR "+" SHAPE ARE RECOMMENDED).
9. CONFIRM THAT THE UL LIGHTS ARE VISIBLE.
10. CLEAR THE CELL/AREA OF ANY TOOLS, LADDERS OR OBJECTS PRIOR TO MOVING THE ROBOT.
11. MOVE THE ROBOT SLOWLY THROUGH THE WORK ENVELOPE TO CONFIRM FORM/FIT/FUNCTION.

SHOULD YOU HAVE ANY QUESTIONS, PLEASE CONTACT ROBOWORLD.