



## **ROBOSUIT™ INSTALLATION INSTRUCTIONS FOR THE MOTOMAN SP-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.

1. MOVE THE ROBOT TO THE "HOME" POSITION.
2. OPEN ALL ZIPPERS AND VELCRO SEAMS.
3. IF YOU PURCHASED A BASE COVER, INSTALL IT FIRST. IT IS HELD IN POSITION WITH A WEB BELT THAT LOOPS AROUND THE BASE CASTING.
4. INSTALL THE LOWER ARM. MAKE SURE THE BELLOWS (ACCORDIAN-STYLE FOLDS) ARE PROPERLY ORIENTED, AND THAT THE 2ND AND 3RD AXIS MOTORS FIT WITHIN THE TWO POCKETS OF THE LOWER ARM. STRAPS WITHIN EACH POCKET ARE USED TO SECURE THE SUIT TO THE ROBOT. PASS THE STRAPS BETWEEN THE MOTORS AND CABLES AND PULL TIGHT.
5. IF YOUR ROBOT HAS A COUNTERWEIGHT, MAKE SURE IT IS POSITIONED WITHIN THE BELLOWED-POCKET. ADJUST THE SUSPENDER AT THE SHOULDER TO PREVENT THE BOTTOM FROM SAGGING OR FROM BEING PINCHED BETWEEN THE COUNTERWEIGHT AND ITS LINK ROD. A SKIRT BAND IS INCLUDED WRAP AROUND THE ROTATING BASE (AS NEEDED).
6. ZIPPER THE LOWER ARM CLOSED. IF THE LOWER ARM FEATURES A BELT, LOOP IT AROUND THE BOTTOM OF THE LOWER ARM, AND TIGHTEN. ENSURE ANY EXCESS BELT MATERIAL IS REMOVED (OR SECURED).
7. INSTALL THE LINKAGE PIECE. THE LINKAGE PIECE OVERLAYS THE ARM PIECE.
8. ATTACH TOOLING AND RECONNECT ANY ELECTRIC/PNEUMATIC LINES THAT WERE DISCONNECTED. VELCRO PANELS HAVE BEEN INCORPORATED TO ACCESS INTEGRATED CONNECTIONS. CAREFULLY CUT "CROSSHAIR" INCISIONS THROUGH THE PANELS TO FACILITATE YOUR (SPECIFIC) CONNECTIONS.
9. ENSURE THE UL LIGHTS ARE VISIBLE. ENSURE THE ROBOT'S WORK ENVELOPE IS FREE/CLEAR OF ANY TOOLS/LADDERS/OBJECTS. MOVE THE ROBOT SLOWLY BEFORE PLACING INTO PRODUCTION.

SHOULD YOU HAVE ANY QUESTIONS, PLEASE CONTACT ROBOWORLD.