



ROBOSUIT™ INSTALLATION INSTRUCTIONS FOR THE ABB IRB6700 ROBOT (AND VARIANTS)

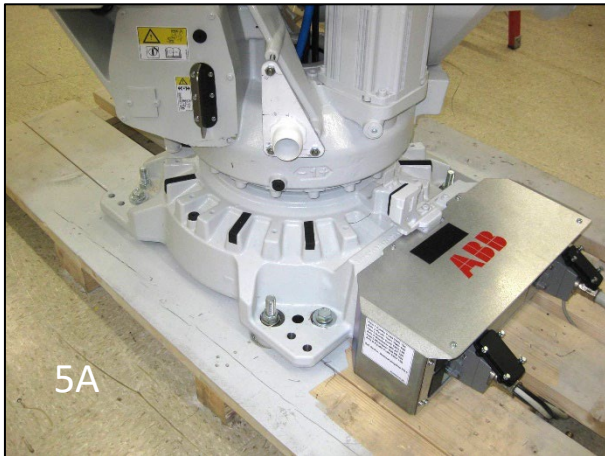
POWER DOWN THE ROBOT AND EMPLOY SAFE LOCK OUT PROCEDURES BEFORE ENTERING THE AUTOMATION CELL. REFER TO YOUR ABB OPERATORS MANUAL FOR GUIDANCE. IT IS RECOMMENDED THAT YOU REVIEW THE ENTIRE INSTALLATION SET BEFORE PROCEEDING TO STEP 1. PRIOR TO INSTALLING THE ROBOSUIT®, CLEAN THE ROBOT SURFACE IF THE ROBOT HAS BEEN IN OPERATION WITHOUT ANY EFFECTIVE PROTECTION.

1. REMOVE FORKLIFT PICK POINTS (EYE BOLTS) OR OTHER LIFTING HARDWARE IF STILL ATTACHED TO THE ROBOT.
2. DISCONNECT ANY ATTACHMENTS THAT WILL INTERFERE WITH INSTALLATION. END-OF-ARM TOOLING DOES NOT NEED TO BE REMOVED. VALVE PACKS, J-BOX, HOSES AND EXTERNAL CONNECTIONS MUST BE REMOVED AND RE-CONNECTED THROUGH THE SUIT.
3. MOVE THE ARM TO ITS "HOME" POSITION. GIVEN THE SIZE AND SCALE OF THIS ARM, A LADDER IS RECOMMENDED. TWO-PERSON INSTALLATION IS ALSO RECOMMENDED.



ABB IRB6700 IN HOME POSITION

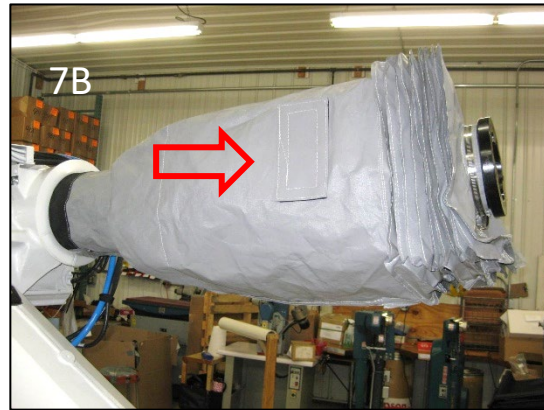
4. EACH SUIT IS MADE UP OF FOUR (4) PIECES, UPPER ARM, SHOULDER, LOWER ARM, AND STATIONARY BASE COVER. COMPONENTS ARE LABELLED ON A MANUFACTURING TAG SEWN INSIDE EACH COVER. IDENTIFY EACH AND OPEN ALL ZIPPERS AND VELCRO SEAMS.
5. INSTALL THE STATIONARY BASE COVER FIRST. LOOK ON THE UNDERSIDE OF THE COVER. NOTE THE POSITIONS OF THE PEEL & STICK ADHESIVE (PSA) HOOK MATED TO THE LOOP SEWN INTO THE COVER. IDENTIFY THE CORRESPONDING LOCATION ON THE BASE CASTING. SEPARATE THE PSA HOOK FROM THE LOOP. REMOVE ADHESIVE BACKING AND ADHERE TO BASE CASTING (5A). START INSTALLATION AT THE STAINLESS-STEEL AWNING ABOVE THE CABLE CONNECTIONS. LOCATE THE HARDSTOP POCKET ON THE COVER AND PLACE ATOP HARDSTOP OF ROBOT (5B). WORK AROUND THE CIRCUMFERENCE OF THE ROUND J1 CIRCULAR BASE. ALIGN THE TOP OF THE COVER WITH THE TOP OF THE J1 GAP (5C). CONTINUE AROUND THE BASE CASTING MATING THE PSA HOOK TO THE LOOP SEWN INSIDE THE COVER. CLOSE THE VELCRO SEAM AND SNAPS (5D).



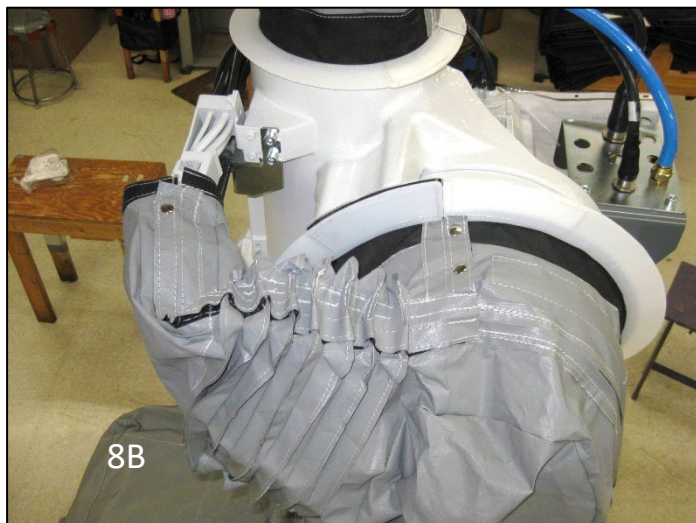
6. IF YOUR ROBOSUIT WILL BE PRESSURIZED, INSTALL THE PRESSURIZATION BRACKET/BARB UTILIZING THE PERIPHERAL MOUNTING HOLES ABOVE JOINT 1. USE THREADED ROD AND NUTS PROVIDED.



7. INSTALL THE UPPER ARM PIECE. THE BELLOWS (ACCORDIAN STYLE FOLDS) SHOULD BE POSITIONED OVER THE WRIST (J5). THE J4 RING FACES AFT (7A). ALIGN AND CLOSE THE VELCRO BELLOWS. CLOSE THE ZIPPER. ROTATE THE SLEEVE SO THAT THE ZIPPER FACES DOWNWARD. ENSURE THE VELCRO ACCESS PANELS ARE ORIENTED OVER THE ABB PERIPHERAL MOUNTING PAD LOCATIONS (7B). SECURE THE UPPER ARM COVER USING THE CLAMP PROVIDED. THE CLAMP SHOULD BE POSITIONED ON THE CASTING WITH THE CUFF PUSHED PAST THE TOOL FLANGE ROTATIONAL PLANE.



8. INSTALL THE LOWER ARM COVER. ORIENT THE COVER SO THAT THE ZIPPER FACES THE FRONT OF THE ARM (8A) TOWARD TOOL END. THE LOWER ARM ACCESS PANELS SHOULD LIE OUTWARD OF THE PERIPHERAL MOUNTING PADS (8C). LOCATE THE PLASTIC JOINT 3 (RING) AND BEGIN INSTALLATION FROM THIS POINT BY INITIALLY BRINGING BOTH SIDES OF THE PLASTIC RING UNDER J3. FIT INTO THE GAP AT J3 (8A). MATE VELCRO ON RING (8B). WRAP THE SIDES OF THE SUIT AROUND THE ROBOT AND BEGINNING AT THE BOTTOM, CLOSE ZIPPERS, MATE VELCRO ALONG BELLOWS & CLOSE SNAPS. THE LOWER ARM OVERLAPS THE STATIONARY BASE COVER IN THE PLANE OF J1. CLOSE THE CABLE WRAP AROUND THE WIRING BUNDLE AT THE TOP OF J3 (8B).





9. INSTALL THE SHOULDER COVER. THE LARGER PLASTIC RING MATES AT J3. THE SMALLER RING IS ORIENTED AT THE UPPER ARM. THE YELLOW UL LIGHT SITS ATOP THE SHOULDER (9C). THE RINGS OF THE SHOULDER COVER FIT OVER THE RINGS OF BOTH THE LOWER ARM @J3 (9A) AND THE UPPER ARM @J4 (9B). CLOSE VELCRO & SNAPS AROUND OEM CABLING TO LOWER ARM. CLOSE REMAINING SEAMS AND SNAPS.





10. ALL OEM PERIPHERAL ACCESS LOCATIONS CAN BE ACCESSED THROUGH THE LOWER ARM, SHOULDER AND UPPER ARM. INCISIONS MAY ALSO BE MADE THROUGH THESE VELCRO ATTACHED PANELS TO ATTACH BRACKETRY, ROUTE PROCESS HOSES, ETC.
11. REMOVE ALL TOOLS, LADDERS AND NON-ESSENTIAL EQUIPMENT FROM THE CELL. SLOWLY JOG THE ROBOT TO ALLOW IT TO SETTLE/SEAT INTO POSITION. CHECK FOR FIT AND OBSTRUCTIONS.
12. ENSURE ALL PERSONNEL ARE OUT OF THE CELL AND RETURN ROBOT TO NORMAL OPERATION.

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT US AT ANY OF THE PHONE NUMBERS LISTED BELOW.

