

STANDARD OPERATING PROCEDURE ABB IRB 6700-200/2.6

DO NOT use this machinery unless you are familiar with the operating manual and have been appropriately trained



High visibility vests must be worn



Switch machinery off after use

INCLUDED MACHINERY



FIGURE 1: ABB IRB6700 ROBOT ARM, NORTH AND SOUTH SICK LASERS, BUILT-IN FORCE TORQUE SENSOR

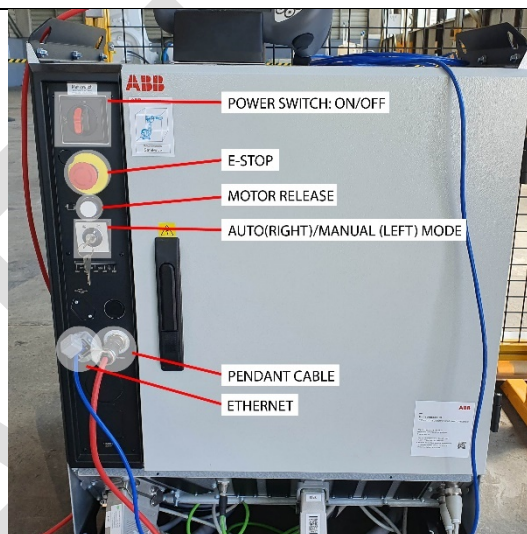


FIGURE 2: ABB CONTROL BOX



FIGURE 3: SICK LASER SOUTH WITH ERROR

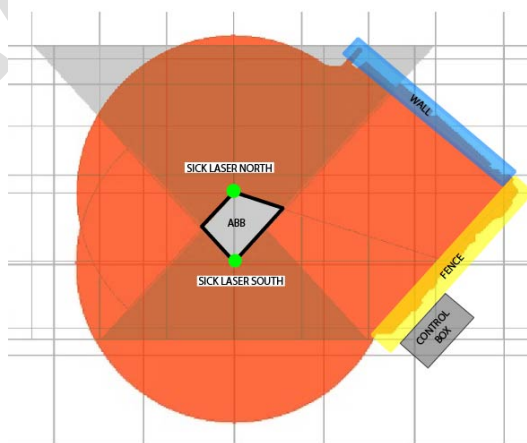


FIGURE 4: OVERLAY OF NORTH AND SOUTH SICK LASERS FIELDS

PRE-OPERATIONAL SAFETY CHECKS

- It is forbidden for someone to run this machinery without the appropriate training
- Ensure no objects/people are within the laser boundaries before turning the ABB on
- Turn main power switch of ABB on (on the wall)
- Turn power switch on control box on
- Release control box and pendant E-STOPS
- Once on, exercise safety system to ensure the two SICK lasers (warning and error zones) mounted onto the ABB's base are configured correctly
 - North sick laser (laser 1) has been switched on and screen shows green
 - South sick laser (laser 2) has been switched on and screen shows green
 - Exercise north laser's warning (yellow screen, slows robot) and error (red screen, stops robot) zones
 - Exercise south laser's warning (yellow screen, slows robot) and error (red screen, stops robot) zones
 - Ensure bollards are placed around the robot, beyond the warning zones
- Ensure ABB is in MANUAL mode
- Ensure MOTOR RELEASE button has been pushed

OPERATIONAL SAFETY CHECKS

- Follow post-operational safety checks before leaving unattended
- Only operate the ABB in view of an operator with E-STOP in hand
- Ensure no objects/people are within either safety laser zones when ABB in operation

POST-OPERATIONAL SAFETY CHECKS

- Return ABB into a safe pose
- Power down ABB appropriately
- Activate E-STOPS on control box and pendant
- Turn power switch on control box off
- Turn main power switch of ABB off (on the wall)
- Lock out the main power switch
- Leave the area in a safe, clean, and tidy state

POTENTIAL HAZARDS

- Fast moving object
- Heavy moving object
- Crush hazard

MEDICAL EMERGENCY

In case of a medical emergency,

1. Alert Queensland Ambulance Service on 000
 - ARM Hub address is 53 Holland Street, Northgate 4013
2. Post a staff member at the front gate to direct the Ambulance Service
3. Call on ARM Hub qualified first aid personnel to assist
 - Lewis Humphries, 0491 209 032