

Periodical Maintenance Schedule PD-12 Personnel Door Opener

Every 6-12 months (generally), or as required depending upon usage.

To be used in conjunction with exploded view diagram

- The only lubricating required on the Robot door mechanism is to spray a small amount of Inox, CRC Dry Glide, Lithium Based Spray Grease or similar into drive channel (Pt.No.12) where the guide block/trolley assembly runs
- Ensure upon opening or closing, the door **does not** hit into the door stoppers. The Robot door mechanism should stop the door via it's reed switches and a 10mm-15mm gap should be present between the door and the stopper when the door comes to rest.
- Check closing force function for correct operation by loading up the door on closing cycle. The door should reverse back to the open position. Adjust closing force potentiometer on the PCB if required. Anticlockwise for less closing force, clockwise for more closing force. Opening cycle will have full force. (Overload cutout at approx 3A-5A load, depending on motor type, will stop the motor on opening cycle)
- **Belt tension:** If a ratchet noise occurs when starting Robot door mechanism the belt tension is too loose. Tighten the belt by loosening idler pulley bolt (Pt.No.20) and lock nut on adjuster (Pt.No.15). Screw in 3/8 bolt on adjuster (Pt.No.15) to tighten belt. Tension should be approx 25mm deflection, 200mm away from either drive or idler pulley. Tighten all nuts and bolts which were loosened for this operation. If the problem persists then the 5M timing drive belt is damaged and requires replacement.
- **Emergency release for manual operation:** This is found on the release arm (Pt.No.23). Check the spring loaded eyebolt slides downwards in slot and simultaneously pull down on the arm, releasing it from trolley (Pt.No.27).
- **Important footnote:** Check door track, rollers, guides, capping, frame, heater for damage and/or wear. Check door has not dropped down onto bottom guide. Door maintenance and repair is paramount for the Robot door mechanism to operate correctly.