

Acheeva Student/Graduate Annual Service Procedures

- Determine serial number of unit to confirm it is correct unit for service. This is located on the column actuator on the chassis top cover moulding.
- Check there is space and area is clean and safe to carry out service
- It is recommended that rubber gloves are worn throughout the service
- Inspect condition of all plastic components. Replace any damaged items.

TOP MODULE SERVICE PROCEDURES

- Engage both brake bars
- Remove any items, including mattress, from platform. Quick Visual check of general condition
- Note “approx starting position “of platform, tilt & recline
- Wipe down bed trays, cotside covers with warm water and mild detergent. The head section should be raised to give best access to the inter-locked parts.
- Raise column actuator to fully extended position – This will check handset function, battery and controller function.
- Return column actuator to “approx starting position”
- Activate tilt function to both limits of travel to ensure correct function. Return to original position
- Activate head recline function through range to ensure smooth, quiet movement. Return to original position
- Inspect underside of platform, recline actuator condition and mounting, platform tilt actuator condition and mounting.
- Visual check of cabling for damage, chafing security and tightness (.. too tight is bad)
- Visually inspect cot sides, firmly shake for security of locking mechanism, and unlock and check fold down function. Excessive play can be reduced by adjusting the grub screw at the back of each cot side bracket, whilst still ensuring easy operation.
- Visually check push handles and check security of mountings to platform.
- Rock platform while taking hold of push handles to check column actuator for excessive free play in column and other actuators. When rocking the head end, the interlocking mouldings should not move more than a couple of degrees relative to each other. Rocking the leg/footstop end should not have more than a couple of degrees of play.
- Initial load test of platform; use handset to lower platform, (sit on side of platform and continue to lower column actuator.
- If load testing required, using handset, raise and lower the platform whilst applying dead weights to achieve the test load (SWL). Operate to the full range of the column actuator.
- Remove mattress (if not removed earlier) and carry out visual inspection of harness straps, check closure and release of buckles.

BASE MODULE SERVICE PROCEDURES

- Wipe down bellows (if applicable), base mouldings and frame using warm water and mild detergent
- Move Acheeva – (to check mobility of castors) and lock all castors to secure (checks function of brakes). Check all grub screws on brake assemblies are secure, the brake bars will need to be in the upper/unlocked position for easier access
- Check each castor for security to base frame
- Check 5th wheel and clean, removing any hair from around axle
- Check column actuator lower securing screws from underside of base using a Torx key. If any are found to be loose, **AN ASSISTANT WILL BE REQUIRED TO TIP THE UNIT ONTO ITS SIDE**. Any loose screws should all be tightened to 30Nm with a torque wrench and T40 Torx bit.
- Check condition of base cover – and condition/security of bellows seal if applicable to Learning Station model
- **Student and Graduate (2014+ models) battery and charge check**
 - Ensure unit is switched on and check handset functions. If the unit operates without the audible low battery buzzer warning, this indicates the battery is in a good state of charge. If the buzzer sounds when a button on the handset is pressed, perform a load test on the battery, replacing if necessary.
 - Visually inspect charger and all cables for general condition, ensuring the charger cables are connected properly. Any worn cables or exposed wires should be replaced immediately. Check charger functions correctly by connecting to an appropriate power supply, a green light on the charger will indicate it is working properly.
- **Pre 2-14 Graduate models batter and charger check**
 - If available, visually inspect charger unit for general condition, and check that it functions correctly. Status light on charger will glow red for charging, green for fully charged. Confirm LED on handset flashes when charger connected (may have to press function button to ‘wake’ handset)
 - Unscrew 4 screws securing base top forming to chassis to give access to battery pack. Withdraw batteries and check voltage across batteries. The red LED on the handset should be lit permanently when voltage drops below 22.5V. The PCB will shut down if the voltage drops below 20.5V. If less than 20V, perform load test on batteries. Charge voltage should also be checked by connecting charger to socket and measuring voltage across batteries. Charger output should be around 29V when charging (red status light on charger) and 27V when batteries fully charged (green status light on batteries).

NOTE: ENSURE BATTERIES ARE SECURE IN MOUNTING BRACKET WHEN REFITTING
- Complete job sheet, have client sign check sheet to confirm service carried out. Leave “white” copy with client, return “yellow/pink” copy with job sheet