

Scorpion Arm removal procedure

1. Disconnect all Power and Pneumatic services to Scorpion Plate stacker.
2. Remove outer cover (refer to cover removal procedure)
3. Remove arm front covers



4. Disconnect pneumatic tubing from gripper assembly



5. Using the 13mm socket and ratchet bar supplied loosen & remove 8mm nut retaining the gripper assembly.



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6. Using the 13mm socket and ratchet bar supplied loosen & remove central 8mm nut.
7. Remove m3 x 20 screws that retain arm to main assembly



8. Push Chain tension device back against spring to temporarily release chain tension
9. Withdraw arm and remove chain from centre chain wheel
10. Remove centre chain wheel, and carefully detach arm from main gearbox assembly



11. Reverse arm to gain access to rear covers.



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12. Remove rear covers, NOTE; position of pneumatic piping for gripper arms
(a third pneumatic pipe is supplied for a lid lift vacuum facility option (normally isolated))
13. The 'elbow' rotation joint of the arm can be disassembled by removing the central connection bolt from 'elbow' joint and separating the two parts,



14. Ensure the small central thrust bearing under the central bolt is retained and replaced in the correct order.
15. Note the quantity and orientation of thrust bearing and support plates



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16. Remove elbow joint chain sprocket (6 screws) to enable access to elbow joint large thrust bearing.
17. Remove large thrust bearing and outer support plates



18. The central needle roller bearing of the elbow joint has been pressed into the machined housing; this cannot be removed by hand.
This bearing can only be removed by the use of a press tool to gently press out the bearing from its retaining bore.

