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AL340 8M TRIPOD LATTICE TOWER – OPERATION MANUAL

DO NOT use this equipment unless you have been instructed in its safe use and operation and have been given permission.

Never operate equipment during storm activity. There is no safe location outdoors during a storm event. If you can hear lightning you are in danger of being struck.

Look up and live. You may be killed if the equipment comes in contact with powerlines. Always think ahead and plan your task in advance.

PERSONAL PROTECTIVE EQUIPMENT

Hardhat to be worn at all times.

Sturdy, enclosed footwear to be worn at all times.

Gloves required when handling guy wires.

Personal Fall Arrest System (PFAS) required for climbing. Qualified personnel only.

GENERAL SAFETY REQUIREMENTS

DO	DON'T
✓ Check workspaces and surrounding area to ensure no slip/trip hazards are present.	✗ Do not operate near powerlines.
✓ Check area above tower for obstructions and electrical cables.	✗ Do not operate during a storm event.
✓ Ensure ground is firm. If in doubt have an engineer inspect.	
✓ Visually inspect guy wires and bolts for tampering/vandalism.	
✓ Ensure correct ballast weight.	

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RAISED POSTION

LOWERED POSITION

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LOWERING PROCEDURE

This procedure covers steps required to lower the AL340 8 metre Tripod Lattice Tower from its raised position, to its lowered position. The raising and lowering process will differ slightly between sizes.

Step 1.
Detach and unspool winch cable to reach lattice. Cable type may differ depending on winch model supplied.

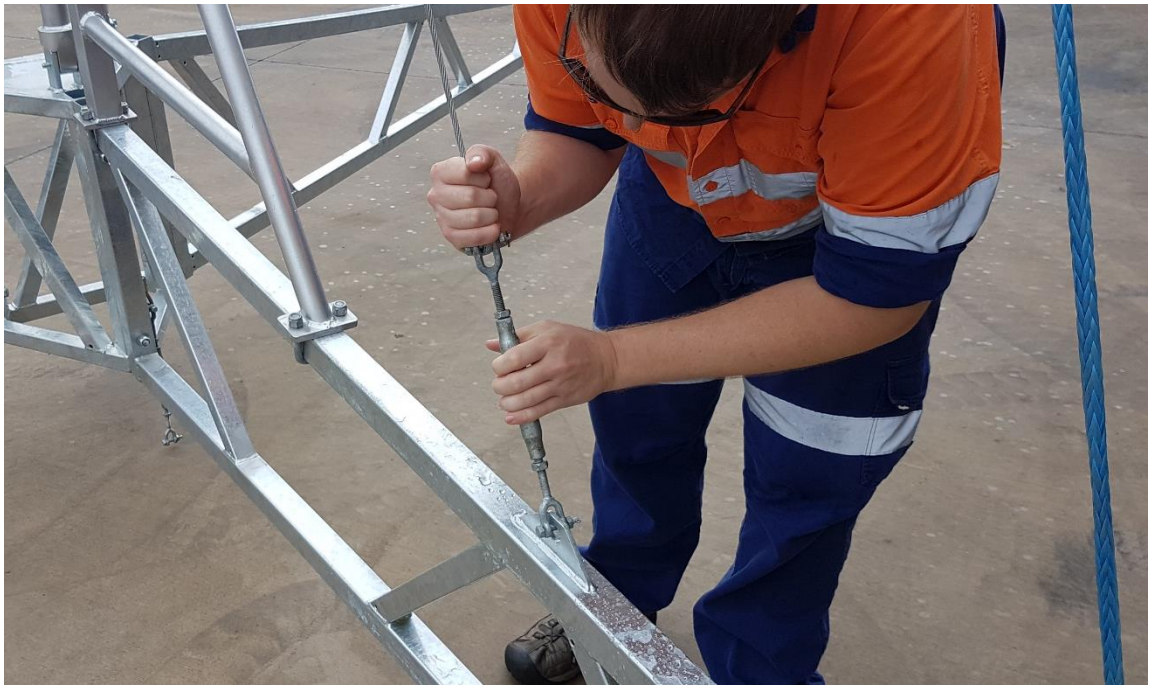
Step 2.

Disconnect guy wire from securing cable and attach winch cable.

Step 3.
Wind up winch cable until guy wire is under tension.

Step 4.
Loosen outer guy turnbuckle, remove pin and undo M14 nut to detach guy wire. Replace nut and pin into assembly if desired.

Step 5.
Loosen inner guy turnbuckle, remove pin and undo M14 nut to detach guy wire. Replace nut and pin into D-shackle if desired.



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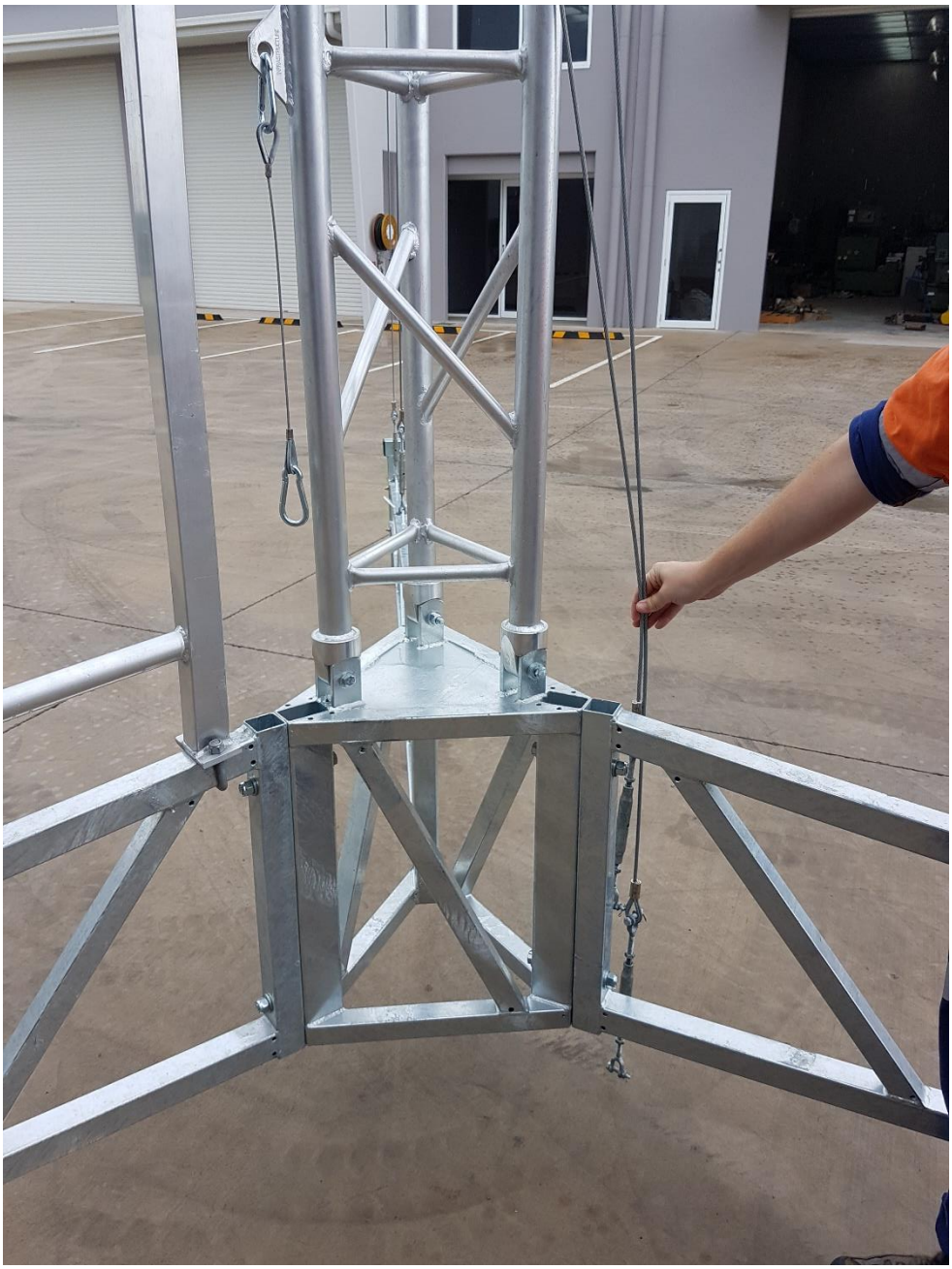
Step 6.
Place loose hanging guy wires behind mast leg to help minimise tangling.



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Step 7.

Remove M18 hex bolt from locking lattice column (column closest to winch). Ensure bolts remain in the two hinging lattice columns.

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Step 8.
The mast is now ready to lower. Unspool winch in a slow steady and consistent rate.

Step 9. - CRITICAL
Ensure guy wire / winch cable self-locates inside gin pole guideway. While the system will self-locate under normal operating parameters, it is very important that this is checked. Failure to do so may result in damage.

Step 10.
Continue lowering until top lattice section is accessible from the ground.

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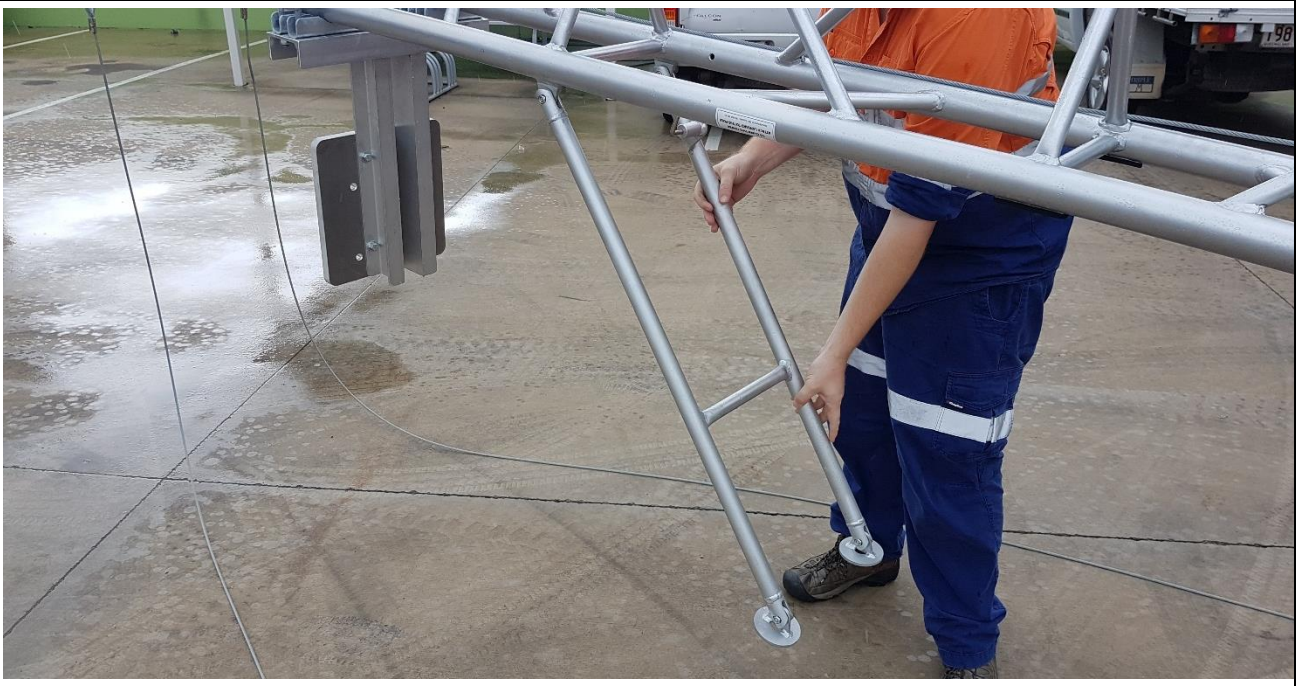
Step 11.

Pull spring-pin outwards to unlock support trestle, lowering until vertical. Ensure feet match ground slope.



Step 12. – FINAL STEP
Continue lowering until trestle feet contact the ground and winch cable is no longer under significant tension. The lowering process is now complete.

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RAISING PROCEDURE

This procedure covers steps required to raise the AL340 Tripod Lattice Tower from its lowered position, to its raised position. Effectively this process is the near-identical reverse of the lowering procedure.

This process assumes all guy wires remain attached as they were during lowering procedure.

Step 1.
Ensure winch cable is under sufficient tension to support tower weight. Check to ensure guy wires are not tangled and will raise freely.

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Step 2.
Fold up support trestle so that it is in a horizontal position. Lock the pin into place to secure trestle.

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Step 3.

Begin spooling winch in a steady, stable manner and at a consistent rate. Winch cable will lift free of gin pole, and mast will self-align into tripod frame.

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Step 4.
Replace supplied M18 hex bolt and tighten using a shifter / wrench.

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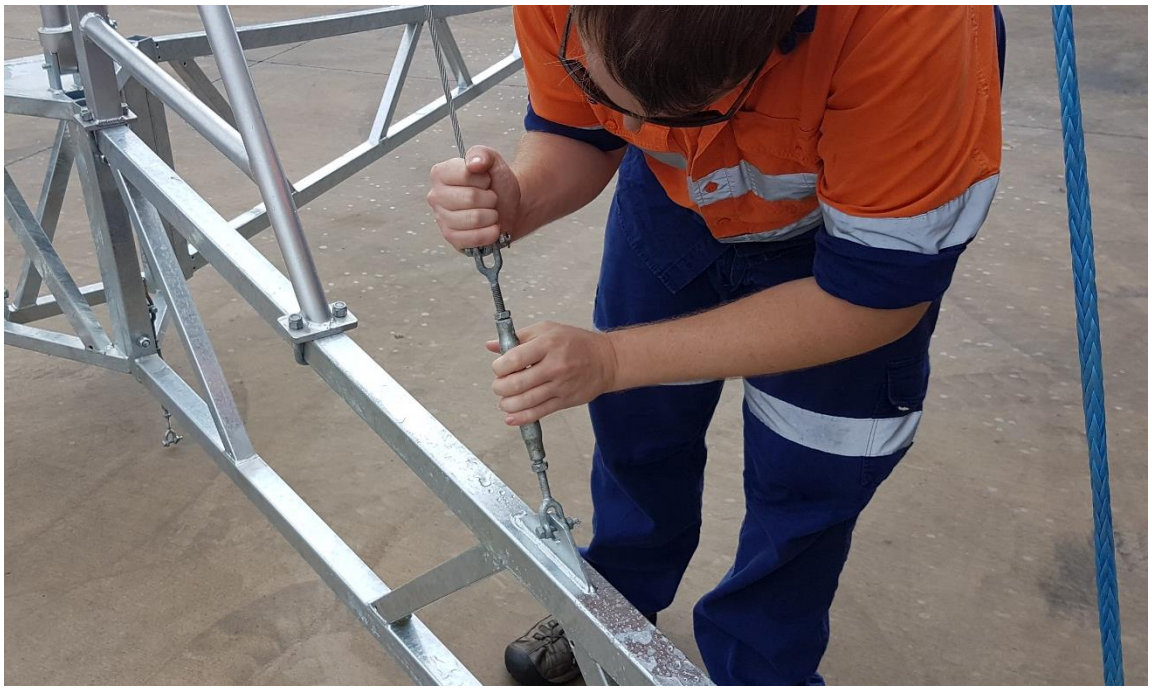
Step 5.
Reattach inner and outer guy wires. Tension both guy wires by rotating turnbuckles. Tension required will depend on engineering assessment of your application. Ensure M14 nuts on D-shackles are tightened using shifter or wrench, and ensure safety pins are in place.



Step 6.
Unspool winch to relax tension. Undo winch D-shackle from guyed winch wire.

Step 7.
Secure guyed winch wire onto stowing cable.

Step 8.
Spool winch cable and secure D-shackle for stowage.

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Step 9. – FINAL STEP
Perform final checks on guy wire tension and ensure all nuts are tight. The raising process is now complete.

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