



**Space
Systems Division**

LRRR(300) Acceptance Test
Deployment Sequence

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The following deployment procedure is the Crew Engineering Acceptance Test Sequence for the LRRR(300) Trainer.

This deployment sequence includes all the tasks and equipment manipulations that the astronauts will be required to perform with the LRRR(300) during training and on the lunar surface, with the exception of package removal tasks. These tasks and the included hardware manipulations, which have been verified previous to the present acceptance deployment, have been deleted from this acceptance deployment sequence.

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- | <u>Task No.</u> | <u>Astronaut Activities</u> |
|-----------------|--|
| 1.0 | Carry LRRR(300) by carry handle to the emplacement site. |
| 2.0 | Emplace LRRR(300) on ground in vertical position. |
| 3.0 | Unstow UHT from yo-yo. |
| 4.0 | Engage UHT into UHT socket. |
| 5.0 | Hold LRRR(300) by carry handle or UHT while unstowing reflector array pull ring, remove reflector array pull pins and hand pull pins to technician. |
| 6.0 | While holding LRRR(300) by carry handle or UHT with one hand, grasp reflector array deployment knob with the other hand, swing small reflector array outward and around 180° until completely deployed and verify that small array is fully deployed and locked. |
| 7.0 | While holding LRRR(300) by carry handle or UHT unstow leveling leg pull ring, remove leveling leg pull pin and hand pull pin to technician. |
| 8.0 | Ensure leveling leg is fully deployed and locked. |
| 9.0 | While holding LRRR(300) by carry handle or UHT remove alignment mechanism pull pin and hand pull pin to technician. |
| 10.0 | Verify that alignment mechanism is fully deployed. |
| 11.0 | While holding LRRR(300) by carry handle or UHT unstow dust cover pull ring, pull on lanyards to remove LRRR(300) dust covers and hand dust covers to technician. |
| 12.0 | Use UHT to emplace LRRR(300) on ground in deployed position. |
| 13.0 | Observe sun compass and use UHT to rough align LRRR(300). |
| 14.0 | Observe bubble level and use UHT to level LRRR(300). |
| 15.0 | Observe sun compass and use UHT to finely align LRRR(300). |
| 16.0 | Disengage UHT from UHT socket. |
| 17.0 | Recheck leveling and alignment. |