

SHIPPING AND UNPACKING A CASSINI SYSTEM

Cassini test systems should always be packaged and shipped using the Roos Instrument's provided shipping crates. DO NOT discard shipping crates. They are designed specifically for the test system with adequate sizing, anti-static material, and conformal padding to protect the test systems during transport. If this crate and shipping material are not available, contact Roos Instruments for further instructions.

NOTE: Always store test systems and shipping crates in an ESD safe, temperature controlled environment at all times.

Damage to test systems, TIMs, instruments, and/or equipment during shipping is the responsibility of the shipping party. Roos Instruments assumes liability for damage of equipment shipped from the factory. Roos Instruments is not liability for shipping damage of equipment shipped to Roos Instruments for service, repair, or otherwise.

SERVICE INFORMATION

If a test system is being returned to Roos Instruments for service, please provide enough information to help expedite repair and return of the product. For best service results, include as much information as possible: symptoms, date of failure, the status of the instrument, etc.

Items for return must include a Return Merchandise Authorization (RMA) number. To obtain an RMA number, please email support@roos.com or contact Roos Instruments at 1.408.748.8589 between the hours of 9:00 a.m. to 6:00 p.m. (U.S. Pacific Standard Time)

An RMA must be requested within 15 calendar days of the invoice date (ship date for credit card orders). NO returns of any type will be accepted without an RMA number and ALL returns must be shipped prepaid and insured via any common carrier (i.e. UPS, FedEx).

NOTE: Tracking information is required.

UNPACKING CASSINI TEST SYSTEMS

Always unpack a Cassini test system on a clean, flat surface in an ESD-safe, temperature controlled environment.

Before unpacking a Cassini test system, inspect the exterior of the crate. Shipping crates may include anti-tampering metal straps around the exterior of the crate. Insure shipping documentation is attached to the exterior of the crate, and that the crate has been delivered and stored according to the orientation arrows. Inspect the exterior of the crate for signs of improper handling, storage, shipping damage, tampering, or otherwise. If any signs of visible damage, suspected mishandling or evidence of possible tampering is present, contact Roos Instruments before opening and unpacking the crate.

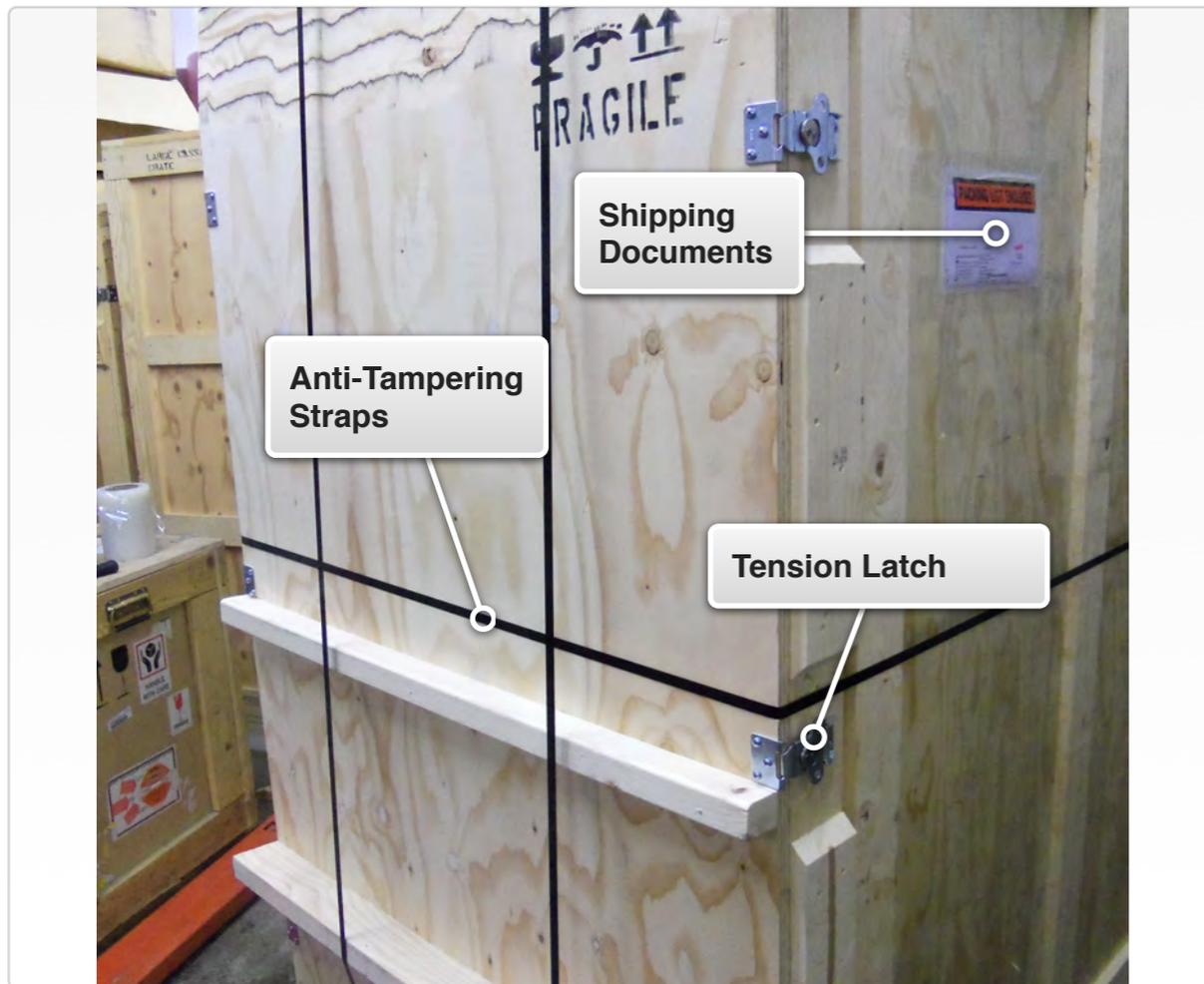
TO REMOVE A CASSINI ATE SYSTEM FROM THE SHIPPING CRATE:

1. Insure the crate is oriented in accordance with the shipping arrows and directions on the exterior.
2. Remove and retain the shipping documentation affixed to the exterior of the crate for manifest reference and record keeping.
3. (If applicable) Remove the anti-tampering metal shipping straps from the exterior with an appropriate metal shearing tool.

4. Unlock the six tension latches located along the sides of the crate's fold down door/ramp.
5. Carefully open the fold-down crate door/ramp to access the interior.
6. Inspect the interior of the shipping crate for signs of shipping damage or improper storage during transport. Contact Roos Instruments if visible damage or moisture is present in the interior of the shipping crate.
7. The test system shipping contains other shipping containers for test instrument modules or other equipment. Remove these boxes before removing the test system infrastructure and/or auxiliary racks.
8. Loosen the wing nuts that secure the wooden cross brace in place and remove the brace as shown in [Figure 1.15](#).
9. Remove the dust cover bag.
10. Remove the test head support foam block located on the rear, right side of the ATE System.
11. Loosen the test system's stabilizer feet as shown in [Figure 1.16](#) by turning the adjustment knobs in a counter clockwise direction until they are as far above the floor as they can adjusted. This will allow the system to roll freely on the system casters.
12. Pull the Cassini ATE System out of the crate using the two large handles located along the top of the infrastructure chassis.

13. The system should roll easily down the ramp created by the open crate door.

FIGURE 1.14 UNPACKING CASSINI 16: EXTERIOR



The image above shows the test system shipping crate oriented correctly with the door/ramp facing forward.

UNPACKING OPTIONAL SHORT AUXILIARY RACK

Once the test system is removed from the crate, the auxiliary rack can be removed.

1. Begin by removing the two foam blocks at the bottom of the rack as shown in [Figure 1.17](#).
2. Loosen the auxiliary rack's stabilizer foot by turning the knob in a counterclockwise direction until the stabilizer is as far above the floor as possible.
3. Roll the auxiliary rack out of the crate by pulling on the extended shelf so that rack can move out of the crate door and down the ramp

FIGURE 1.15 UNPACKING CASSINI 16: INTERIOR 1

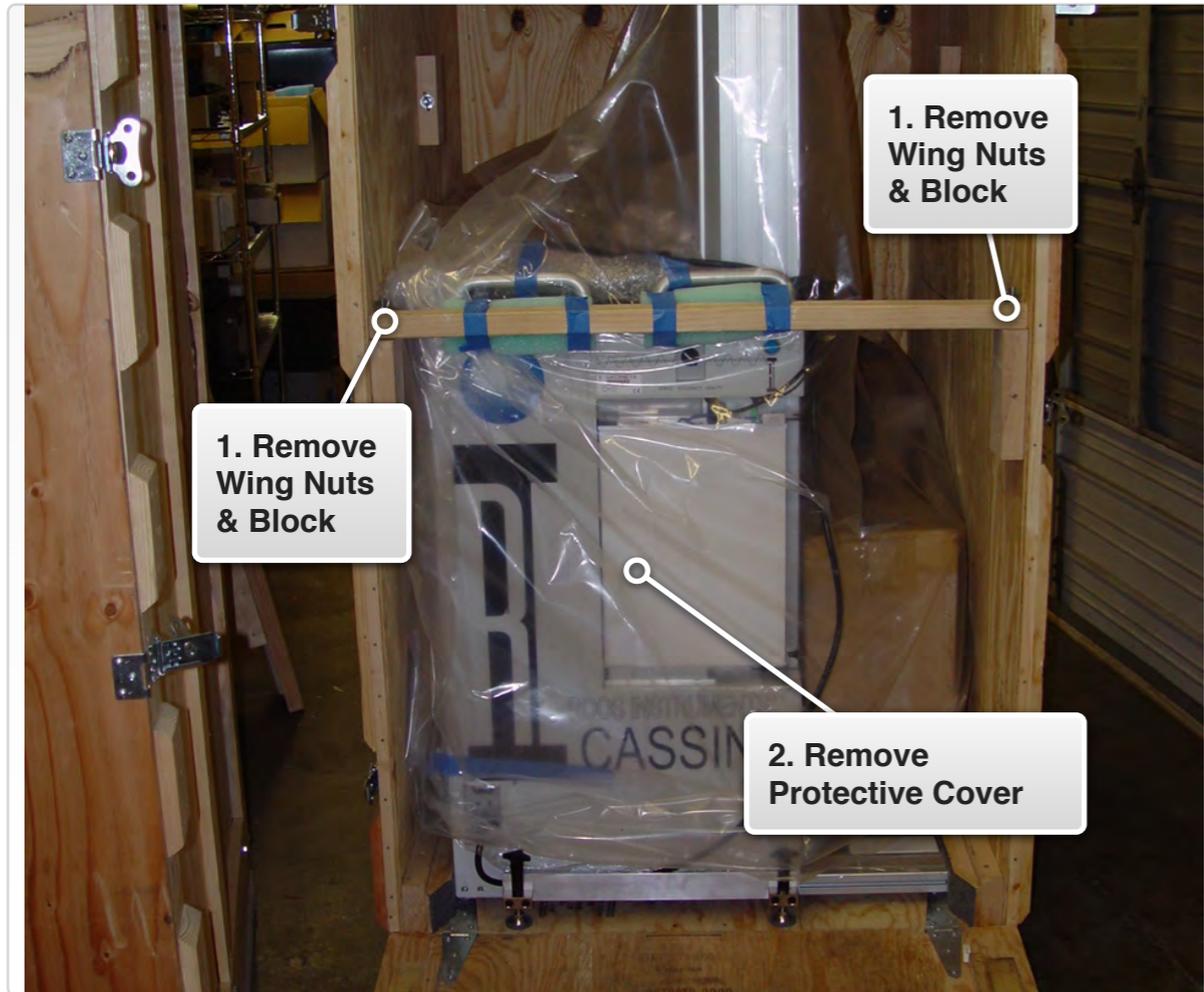


FIGURE 1.16 UNPACKING CASSINI 16: INTERIOR 2

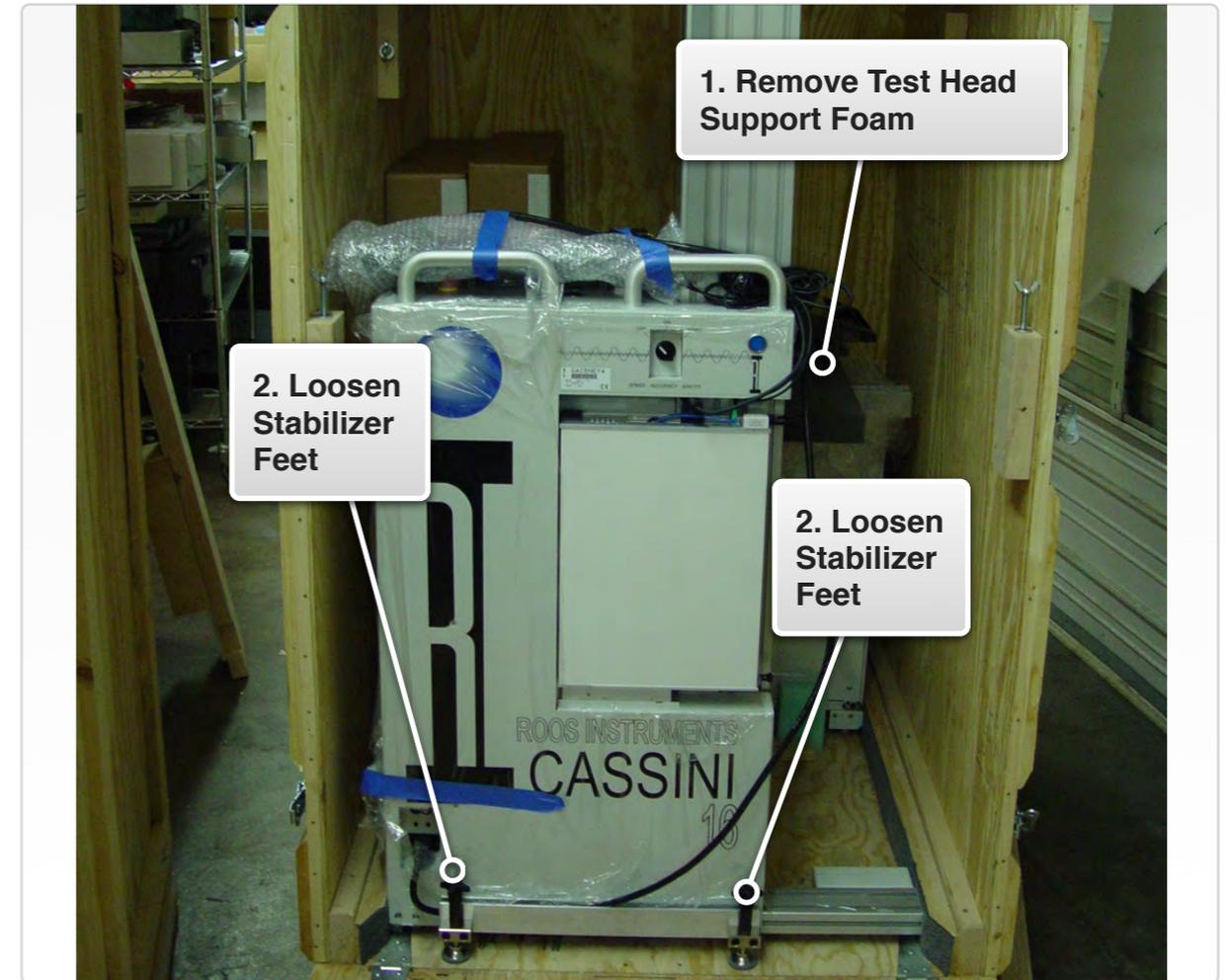
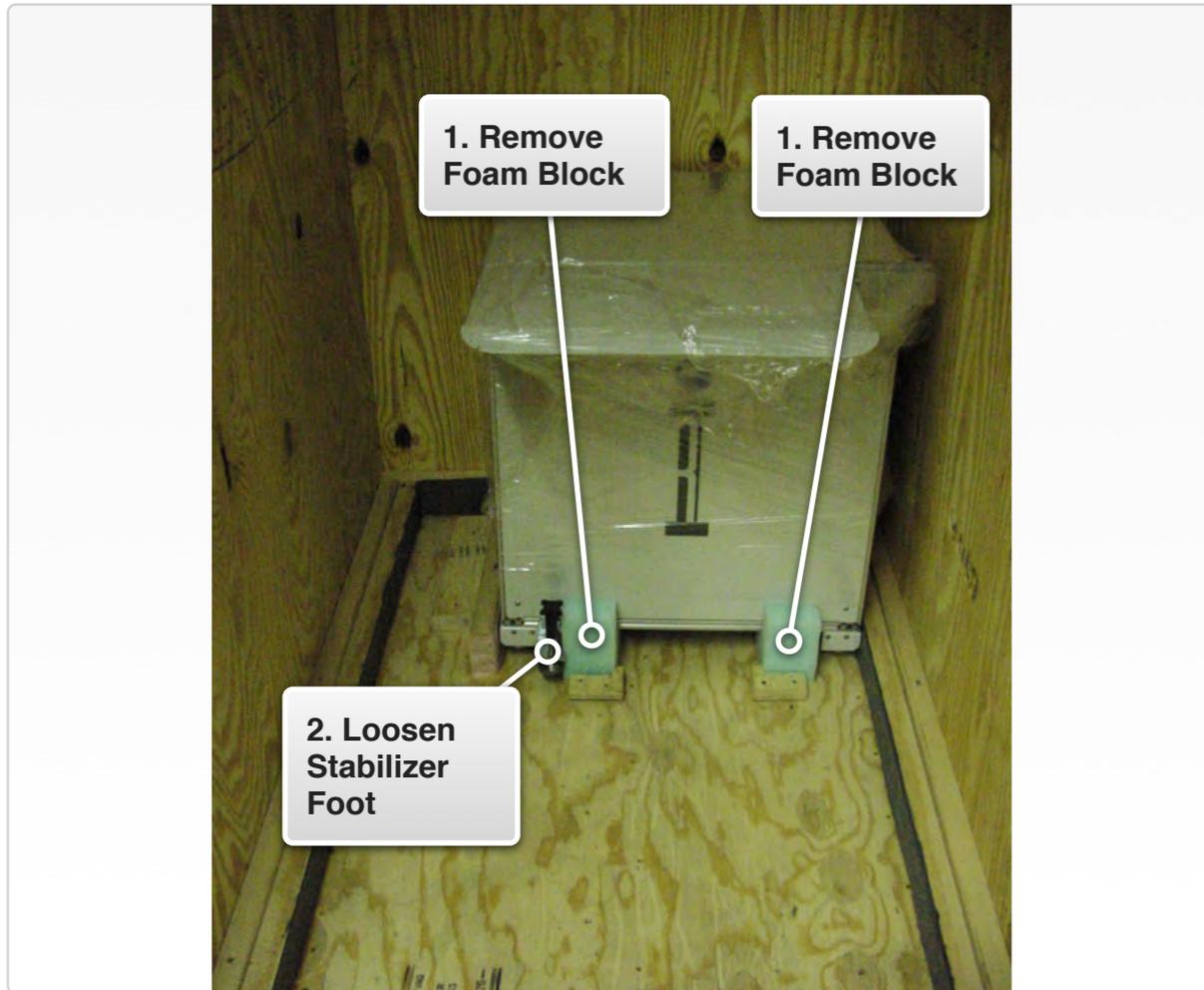


FIGURE 1.17 UNPACKING CASSINI 16: REMOVING AUXILIARY RACK



INSTALLATION

This section provides step-by-step procedures for installing a new or re-located Cassini test system. Reference the [Site Preparation for Cassini Test Systems](#) section in the System Information chapter for test floor compliance of environmental, electrical, and equipment requirements. If the system is a new, factory provided Cassini system, adhere to the unpacking guidelines outlined in the [Shipping and Unpacking a Cassini Test System](#) section in the System Information chapter. Users should always adhere to the safety guidelines provided in the [Operator and Safety Information](#) section in the System Information chapter.

WARNING: Before installing and powering up a Cassini test system, inspect the surfaces, connectors, and mechanical components of the chassis, TIMs, fixtures, and auxiliary equipment for damage. If there is any damage, do not attempt to power on the test system. Contact Roos Instruments support for recommended service, repair, and/or replacement of suspected equipment.

TO INSTALL A CASSINI 16 TEST SYSTEM:

Reference the [Cassini 16 Infrastructure Diagram](#) for component names and locations.

1. Before connecting AC power to the infrastructure, verify that both the main breaker switch and secondary breaker switches are in the OFF position.
2. Verify that the Fixture Docking Switch is in the UNLATCH position.

NOTE: A fixture or calibration/diagnostic plate should not be docked to the test head while installing ore removing TIMs.

3. Insure the manipulator locking pin is in the 'Maintenance Lock' position and the test head is fixed in place. This prevents the test head from moving horizontally during set up.

NOTE: The manipulator lock should be in the 'Maintenance Position' when the tester is not attached to a handler/prober or when the system is not in use.

4. Inspect the test head RIFL contact pads located on the underside of the test head. To access the contact pads, unlock and rotate the test head 180 degrees so that hub PCBs are visible and facing upwards.

WARNING: If any damage to the test head RIFL PCB or contacts is visible, do not attach TIMs to the test head. Contact Roos Instruments support for service recommendations.

5. If counterweights are to be installed, lock the test head rotation lock and install the counterweights in accordance with the included counterweight installation instructions.
6. Rotate the test head to the upright position and lock the rotation pin.
7. If the System Controller is not already installed in the infrastructure, insert the System Controller TIM. Reference the [System Controller Installation](#) instructions.
8. If the system is equipped with an auxiliary rack and auxiliary test equipment, position and lock the rack to the infrastructure chassis using the docking guides and pull lock. Reference the auxiliary rack position configurations shown in the Appendix for the [RI8568 Cassini 16 infrastructure](#). Plug in the AC line cord from the auxiliary rack's AC power distribution input.
9. Install TIMs into their appropriate slot locations. If the system is equipped with an auxiliary rack and auxiliary test equipment, also install the remote TIMs into their appropriate slot locations.

NOTE: Reference the provided Test Head Resources or Test Head Configuration diagram for the TIM locations on a Cassini test system.

10. Plug in the AC line cord to the infrastructure main AC input.
11. Connect the compressed air source to the test systems air input port located on the chassis adjacent to the secondary breakers. Reference the [Cassini Site Preparation](#) section for the specifications and setup of the pneumatic air system.
12. Check that the Emergency Off (EMO) switch is not engaged. Reference the EMO switch information in the [Operator & Safety Information](#) section.
13. Verify that the System Controller's ethernet port, located adjacent to the latch, is connected to a minimum standard ethernet CAT-5e RJ45 network cable connected to 10/100/1000BASE-T (Gigabit Ethernet) network switch or hub to connect the test system with a Guru Server and/or other network resources.
14. The test system can now be powered-on following the instructions provided in the [System Startup Procedures](#).

To install or setup a Small Cassini or Large Cassini test system, contact Roos Instruments at support@roos.com for instructions and procedures.