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DYNAMIC SHOCK TESTING

ATS JOB # D271398 – Rev2

PURCHASE ORDER # CREDIT CARD

Prepared for

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Prepared by _____
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Subject

Dynamic Shock Testing

Materials

Eight (8) iPad adapter mounts

- **MNT-1027-** (Sport Adapter with RAM Ball),
 - **iPad Holder:** MNT-1615 (Universal Cradle XL)
- **MNT-1805-** (Flex Suction)
 - **iPad Holder:** MNT-1610 (Universal Cradle)
- **MNT-1855-**(Flex Rail)
 - **iPad Holder:** MNT-1610 (Universal Cradle)
- **MNT-1845-**(Flex Clip)
 - **iPad Holder:** MNT-1610 (Universal Cradle)
- **JMT-5030-** (AMPs Swivel)
 - **iPad Holder:** MNT-1610 (Universal Cradle)
- **MNT-1880-** (Airbus Square Tube Mount)
 - **iPad Holder:** MNT-1610 (Universal Cradle)
- **MNT-1860-** (Robinson Center Spar)
 - **iPad Holder:** MNT-1610 (Universal Cradle)
- **MNT-1820-** (Flex Yoke)
 - **iPad Holder:** MNT-1610 (Universal Cradle)

Objective and Background

Applied Technical Services, Inc. was requested by MyGoFlight to subject the supplied samples to a dynamic shock test.

Test Procedure

Following the installation instructions provided by MyGoFlight, the test samples were mounted to an electrodynamic shaker table as shown in Figures 1-8. A two (2) pound mass representative of an iPad or other tablet was provided to ATS for testing (mass verified with a calibrated scale).

The samples were subjected to a Crash Safety Impulse – RTCA DO 160G, Section 7.3.1 (Cat. B) 20G, 11ms, terminal sawtooth profile as shown in Figure 9.

One (1) impact was delivered on each axis (X, Y and Z) for each direction (Positive and Negative). Each sample was rotated to test all axes to achieve a total of 6 shocks per sample.

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Conclusion

The samples provided by MyGoFlight were tested for dynamic shock using Crash Safety Impulse – RTCA DO 160G, Section 7.3.1 (Cat. B) 20G, 11ms, terminal sawtooth profile.

None of the mounts released or separated during the shocks.

The samples were returned to My Go Flight for evaluation.

Equipment used

Accelerometer: ATS – 1716JJ, Calibration due date: 06/17/2017

Shaker: ATS – 5687, Calibration due date: 08/08/2017

Scale: ATS-4148, Calibration due date: 12/29/2017

Revision History

4/11/2017: Original release

4/12/2017: Revision 1

Added the statement “None of the mounts released or separated during the shocks.” under the conclusion heading.

4/13/2017: Revision 2

Edited and added the sentences” A two (2) pound mass representative of an iPad or other tablet was provided to ATS for testing (mass verified with a calibrated scale).” under the conclusion paragraph.



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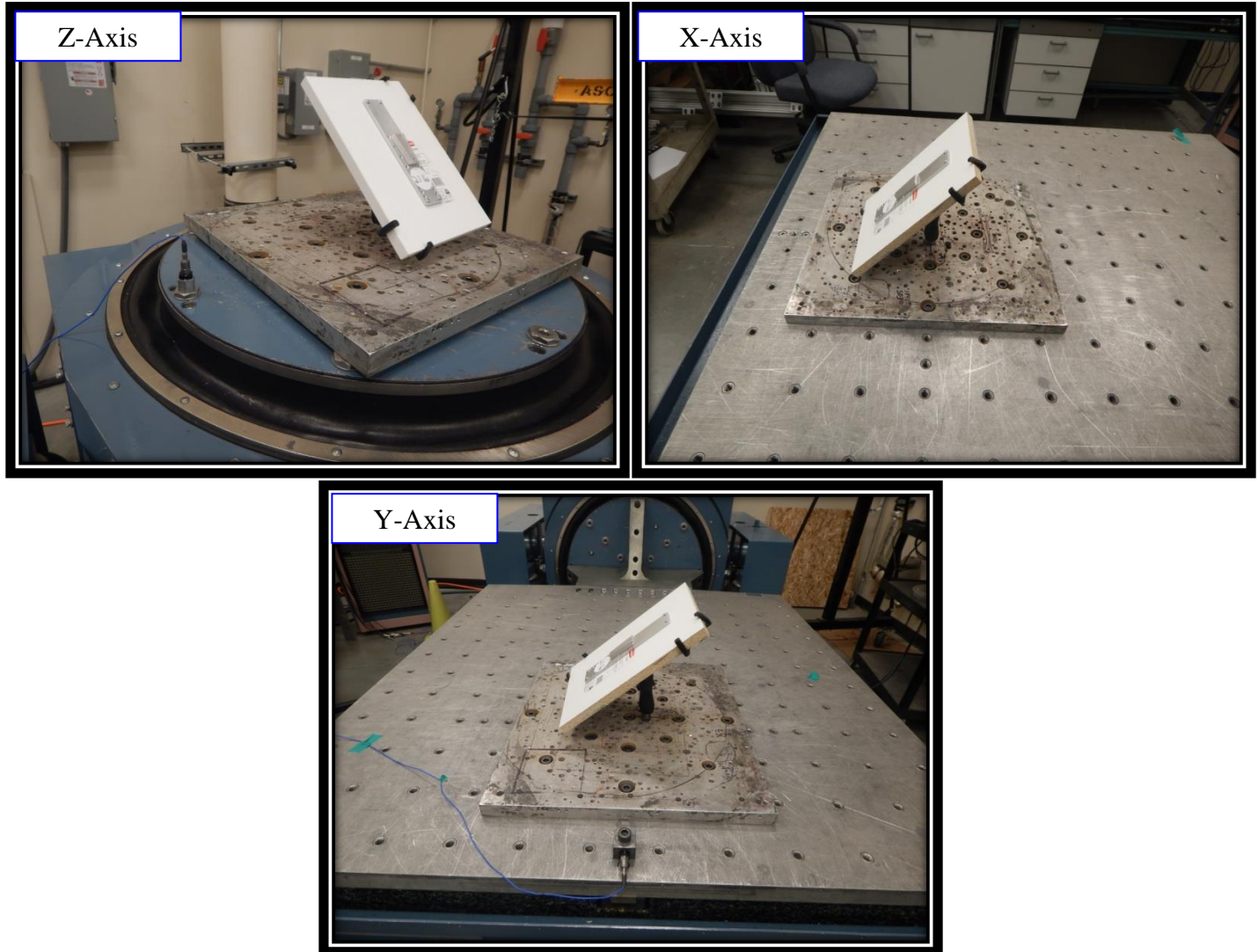


Figure 1: View of test setup for MNT-1027- (Sport Adapter with RAM Ball)



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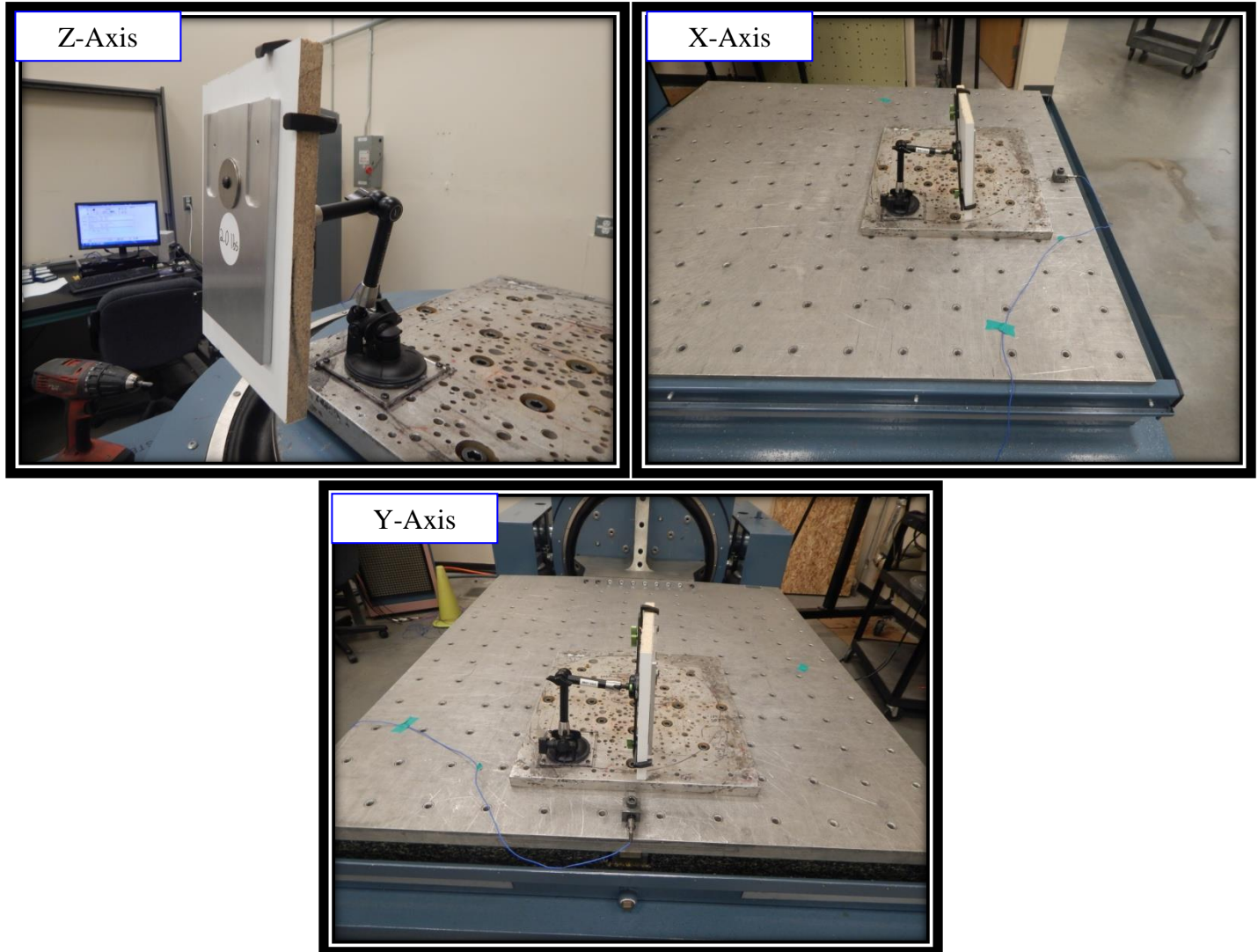


Figure 2: View of test setup for MNT-1805- (Flex Suction)



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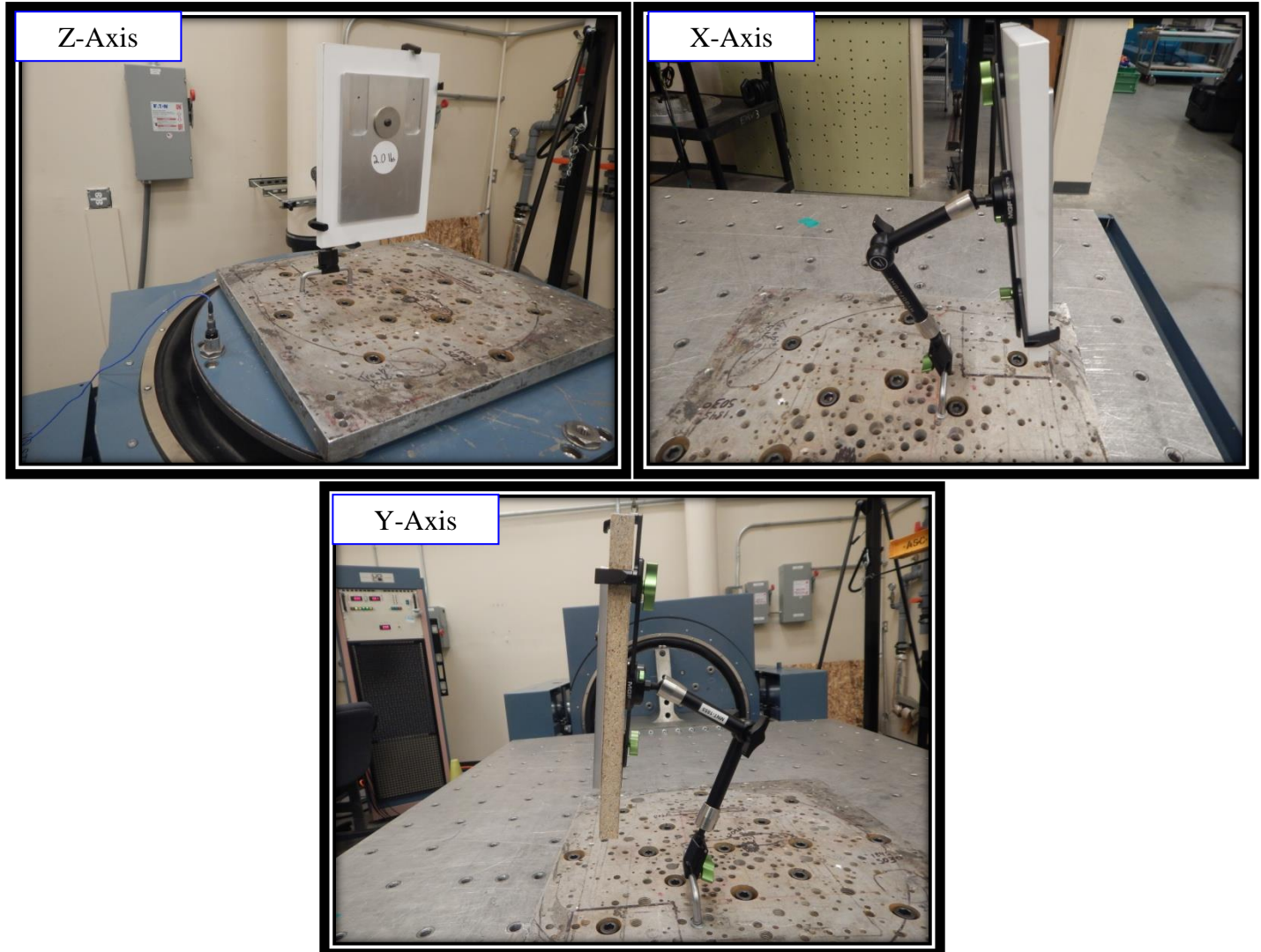


Figure 3: View of test setup for MNT-1855- (Flex Rail)



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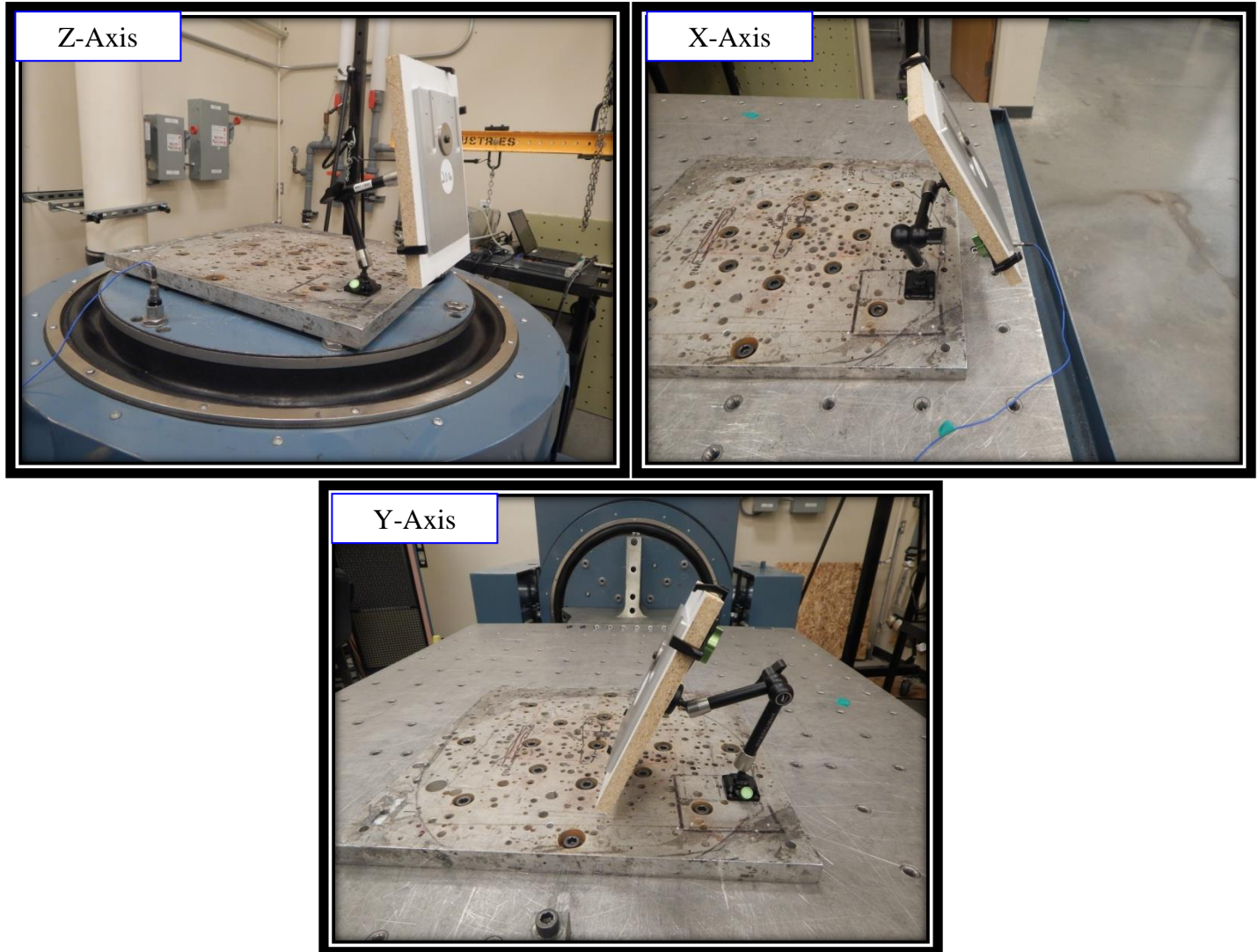


Figure 4: View of test setup for MNT-1845- (Flex Clip)



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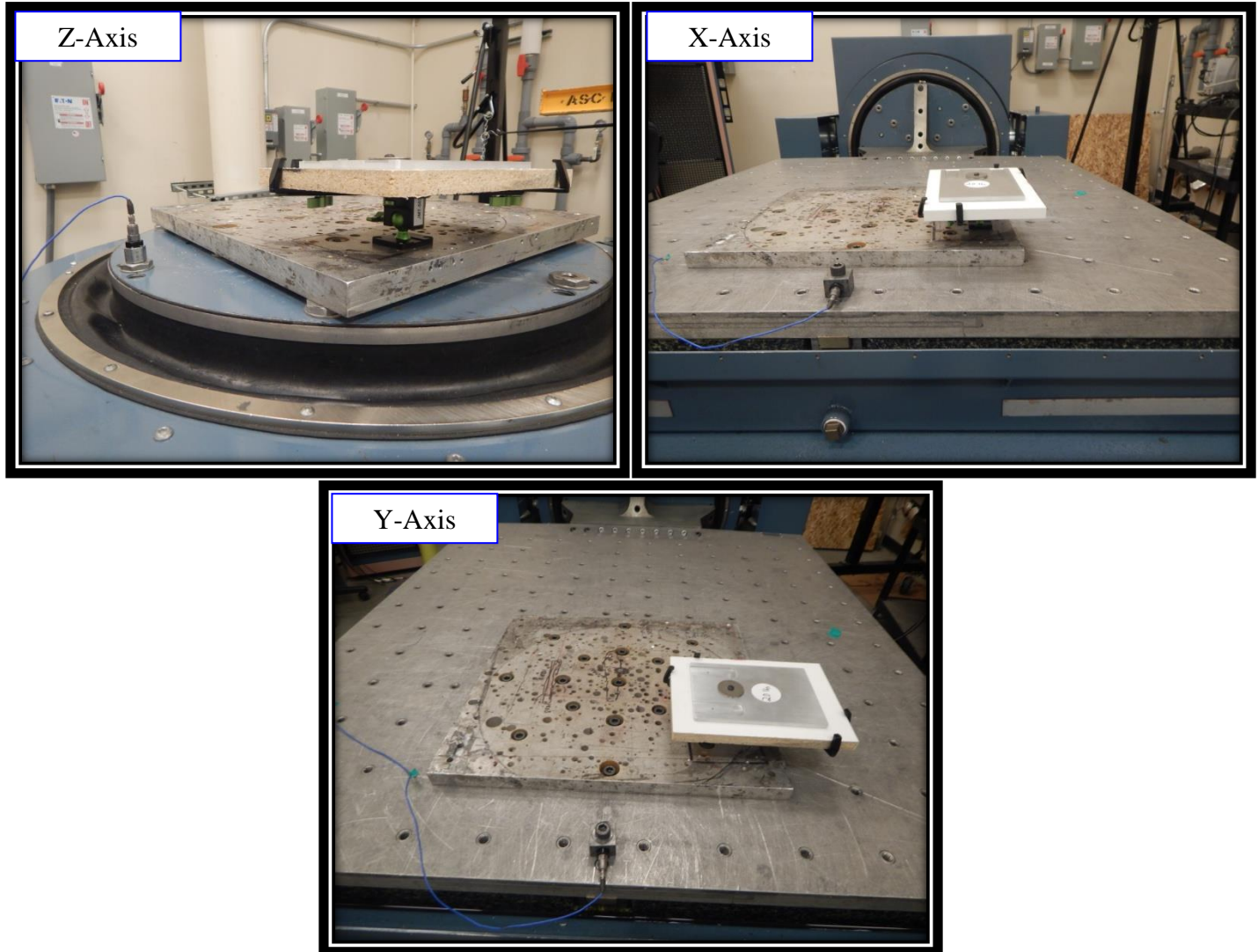


Figure 5: View of test setup for JMT-5030- (AMPs Swivel)



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Figure 6: View of test setup for MNT-1880- (Airbus Square Tube Mount)



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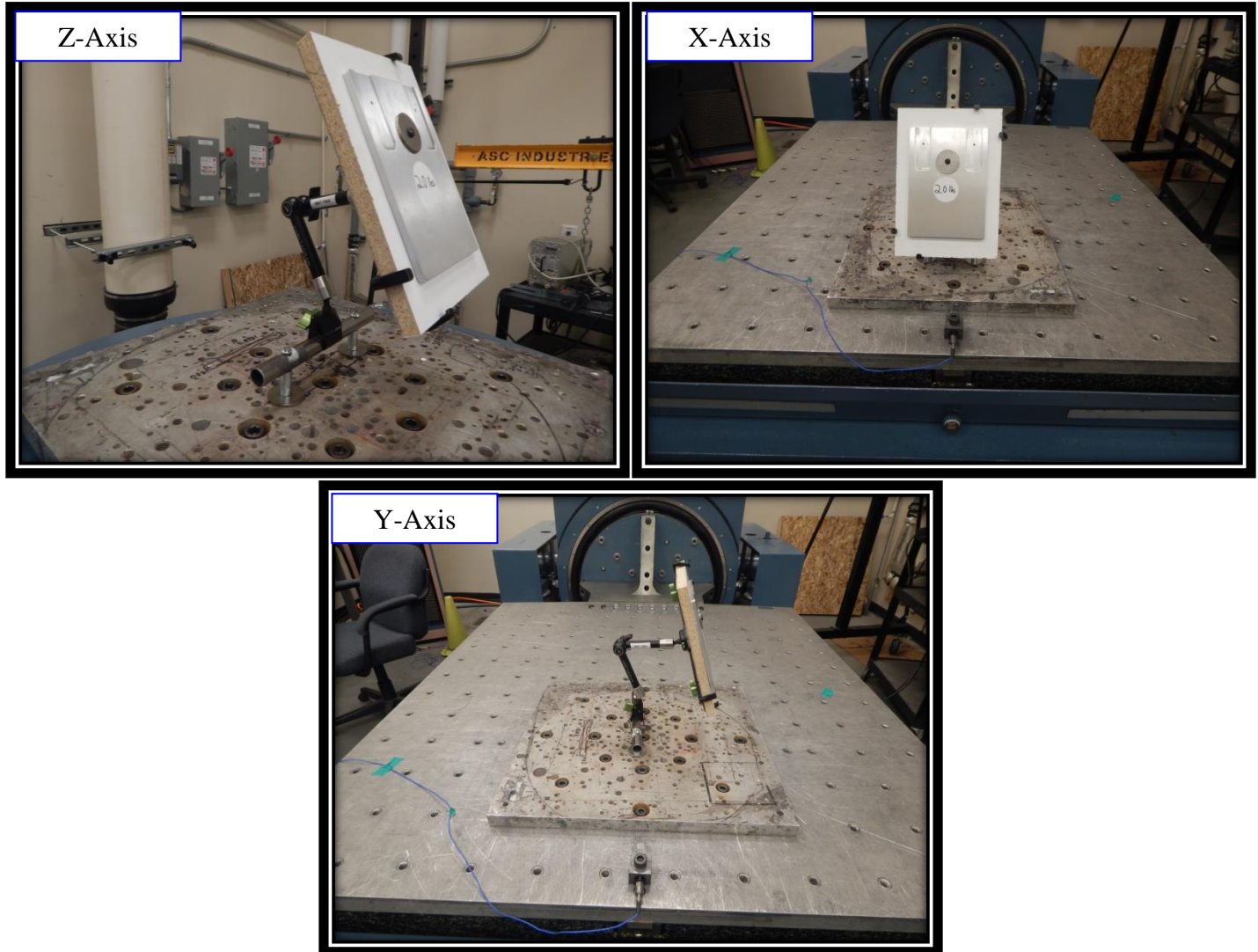


Figure 7: View of test setup for MNT-1860- (Robinson Center Spar)



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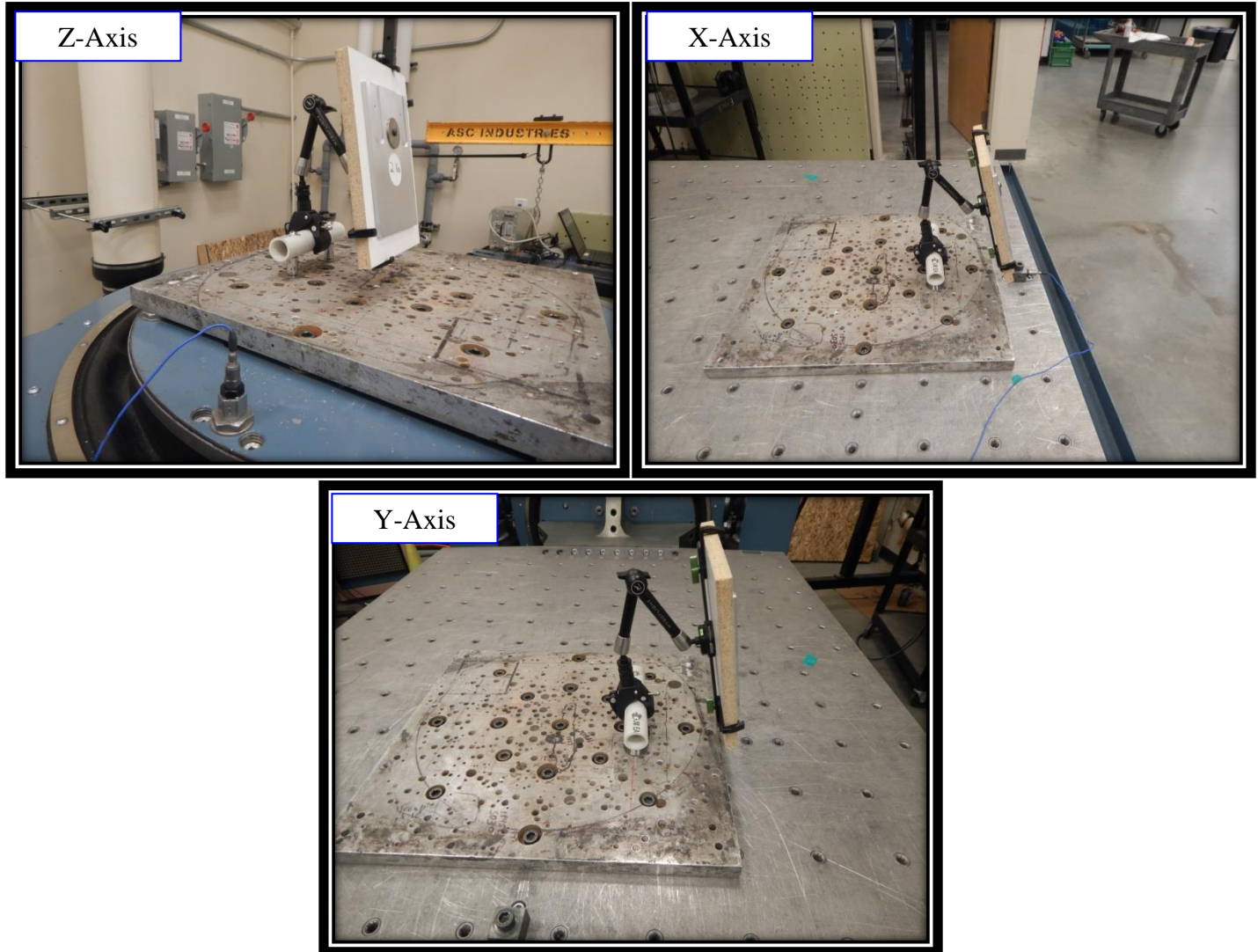


Figure 8: View of test setup for MNT-1820- (Flex Yoke)



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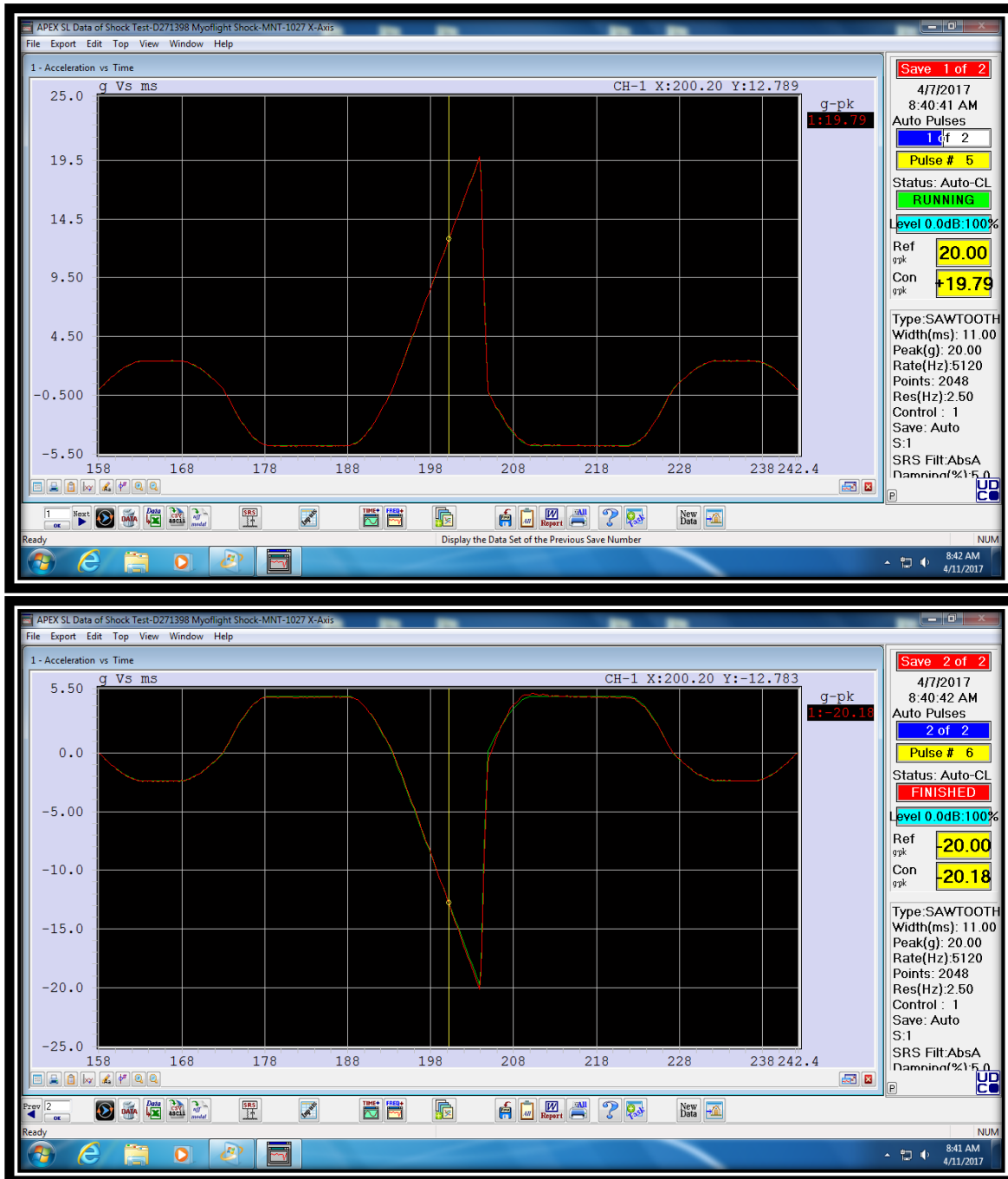


Figure 9: Representative views of the shocks applied (positive and negative directions)