Appendix B
### 3/8-inch Amsteel (Precycled)

<table>
<thead>
<tr>
<th>Case ID</th>
<th>Drop Number</th>
<th>Drop Height (in.)</th>
<th>Weight (lb)</th>
</tr>
</thead>
<tbody>
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<td>Test 5A</td>
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Table B.1.1 Test Sequence for 3/8 in. Amsteel (Precycled)

### 1/2-inch Amsteel (Precycled)

<table>
<thead>
<tr>
<th>Case ID</th>
<th>Drop Number</th>
<th>Drop Height (in.)</th>
<th>Weight (lb)</th>
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<td>Test Sequence Two</td>
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<td>Test 11B</td>
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Table B.1.2 Test Sequence for 1/2 in. Amsteel (Precycled)
### 3/8-inch Amsteel (New)

<table>
<thead>
<tr>
<th>Case ID</th>
<th>Drop Number</th>
<th>Drop Height (in.)</th>
<th>Weight (lb)</th>
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<tbody>
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<td>Test Sequence Two</td>
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</tr>
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<td>Test 7C</td>
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<td>85</td>
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<td>Test Sequence Three</td>
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<td>9</td>
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<td>Test 10C</td>
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<td>Test 11C</td>
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Table B.1.3 Test Sequence for 3/8 in. Amsteel (New)

### 1/2-inch Amsteel (New)

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<th>Case ID</th>
<th>Drop Number</th>
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<th>Weight (lb)</th>
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<td>Test Sequence Two</td>
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<td>Test 6D</td>
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Table B.1.4 Test Sequence for 1/2 in. Amsteel (New)
### 3/8-inch Amsteel (7 foot)

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<thead>
<tr>
<th>Case ID</th>
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<td>Test 3FF</td>
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<td>64</td>
<td>105</td>
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<td>Test 4FF</td>
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<tr>
<td>Test 5FF</td>
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<td>105</td>
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</table>

Table B.1.5 Test Sequence for 3/8 in. Amsteel (7 foot)
Case 1A: Precycled 3/8 in. Amsteel (65 lbs from 68 in.)

Figure B.1.1 Case 1A: Force and Acceleration vs. Time

Case 1A: Precycled 3/8 in. Amsteel (65 lbs from 68 in.)

Figure B.1.2 Case 1A: Combined Plot
Case 1A: Precycled 3/8 in. Amsteel (65 lbs from 68 in.)

Figure B.1.3 Case 1A: Force vs. Velocity

Case 1A: Precycled 3/8 in. Amsteel (65 lbs from 68 in.)

Figure B.1.4 Case 1A: Force vs. Absolute Displacement
Case 2A: Precycled 3/8 in. Amsteel (65 lb from 80 in.)

Figure B.2.1 Case 2A: Force and Acceleration vs. Time

Figure B.2.2 Case 2A: Combined Plot
Case 2A: Precycled 3/8 in. Amsteel (65 lb from 80 in.)

Figure B.2.3 Case 2A: Force vs. Velocity

Case 2A: Precycled 3/8 in. Amsteel (65 lb from 80 in.)

Figure B.2.4 Case 2A: Force vs. Absolute Displacement
Case 3A: Precycled 3/8 in. Amsteel (65 lb from 98 in.)

Figure B.3.1 Case 3A: Force and Acceleration vs. Time

Case 3A: Precycled 3/8 in. Amsteel (65 lb from 98 in.)

Figure B.3.2 Case 3A: Combined Plot
Case 3A: Precycled 3/8 in. Amsteel (65 lb from 98 in.)

![Graph showing force vs. velocity](image)

Figure B.3.3 Case 3A: Force vs. Velocity

Case 3A: Precycled 3/8 in. Amsteel (65 lb from 98 in.)

![Graph showing force vs. absolute displacement](image)

Figure B.3.4 Case 3A: Force vs. Absolute Displacement
Case 4A: Precycled 3/8 in. Amsteel (65 lb from 98 in.)

Figure B.4.1 Case 4A: Force and Acceleration vs. Time

Figure B.4.2 Case 4A: Combined Plot
Figure B.4.3 Case 4A: Force vs. Velocity

Figure B.4.4 Case 4A: Force vs. Absolute Displacement
Case 5A: Precycled 3/8 in. Amsteel (85 lb from 61 in.)

Figure B.5.1 Case 5A: Force and Acceleration vs. Time

Figure B.5.2 Case 5A: Combined Plot
Case 5A: Precycled 3/8 in. Amsteel (85 lb from 61 in.)

Figure B.5.3 Case 5A: Force vs. Velocity

Figure B.5.4 Case 5A: Force vs. Absolute Displacement
Figure B.6.1 Case 1B: Force and Acceleration vs. Time

Figure B.6.2 Case 1B: Combined Plot
Case 1B: Precycled 1/2 in. Amsteel (65 lb from 56 in.)

Figure B.6.3 Case 1B: Force vs. Velocity

Figure B.6.4 Case 1B: Force vs. Absolute Displacement
Case 2B: Precycled 1/2 in. Amsteel (65 lb from 68 in.)

Figure B.7.1 Case 2B: Force and Acceleration vs. Time

Figure B.7.2 Case 2B: Combined Plot
Case 2B: Precycled 1/2 in. Amsteel (65 lb from 68 in.)

Figure B.7.3 Case 2B: Force vs. Velocity

Figure B.7.4 Case 2B: Force vs. Absolute Displacement
Case 3B: Precycled 1/2 in. Amsteel (65 lb from 81 in.)

Figure B.8.1 Case 3B: Force and Acceleration vs. Time

Case 3B: Precycled 1/2 in. Amsteel (65 lb from 81 in.)

Figure B.8.2 Case 3B: Combined Plot
Case 3B: Precycled 1/2 in. Amsteel (65 lb from 81 in.)

Figure B.8.3 Case 3B: Force vs. Velocity

Figure B.8.4 Case 3B: Force vs. Absolute Displacement
Case 4B: Precycled 1/2 in. Amsteel (65 lb from 93 in.)

Figure B.9.1 Case 4B: Force and Acceleration vs. Time

Case 4B: Precycled 1/2 in. Amsteel (65 lb from 93 in.)

Figure B.9.2 Case 4B: Combined Plot
Figure B.9.3 Case 4B: Force vs. Velocity

Figure B.9.4 Case 4B: Force vs. Absolute Displacement
Figure B.10.1 Case 5B: Force and Acceleration vs. Time

Figure B.10.2 Case 5B: Combined Plot
Case 5B: Precycled 1/2 in. Amsteel (65 lb from 98 in.)

Figure B.10.3 Case 5B: Force vs. Velocity

Figure B.10.4 Case 5B: Force vs. Absolute Displacement
Case 6B: Precycled 1/2 in. Amsteel (85 lb from 59 in.)

Figure B.11.1 Case 6B: Force and Acceleration vs. Time

Figure B.11.2 Case 6B: Combined Plot
Case 6B: Precycled 1/2 in. Amsteel (85 lb from 59 in.)

Figure B.11.3 Case 6B: Force vs. Velocity

Case 6B: Precycled 1/2 in. Amsteel (85 lb from 59 in.)

Figure B.11.4 Case 6B: Force vs. Absolute Displacement
Case 7B: Precycled 1/2 in. Amsteel (85 lb from 71 in.)

Figure B.12.1 Case 7B: Force and Acceleration vs. Time

Figure B.12.2 Case 7B: Combined Plot
Figure B.12.3 Case 7B: Force vs. Velocity

Figure B.12.4 Case 7B: Force vs. Absolute Displacement
Case 8B: Precycled 1/2 in. Amsteel (85 lb from 83 in.)

Figure B.13.1 Case 8B: Force and Acceleration vs. Time

Figure B.13.2 Case 8B: Combined Plot
Case 8B: Precycled 1/2 in. Amsteel (85 lb from 83 in.)

Figure B.13.3 Case 8B: Force vs. Velocity

Figure B.13.4 Case 8B: Force vs. Absolute Displacement
Case 9B: Precycled 1/2 in. Amsteel (85 lb from 60 in.)

Figure B.14.1 Case 9B: Force and Acceleration vs. Time

Case 9B: Precycled 1/2 in. Amsteel (85 lb from 60 in.)

Figure B.14.2 Case 9B: Combined Plot
Figure B.14.3 Case 9B: Force vs. Velocity

Figure B.14.4 Case 9B: Force vs. Absolute Displacement
Case 10B: Precycled 1/2 in. Amsteel (85 lb from 60 in.)

Figure B.15.1 Case 10B: Force and Acceleration vs. Time

Case 10B: Precycled 1/2 in. Amsteel (85 lb from 60 in.)

Figure B.15.2 Case 10B: Combined Plot
Case 10B: Precycled 1/2 in. Amsteel (85 lb from 60 in.)

Figure B.15.3 Case 10B: Force vs. Velocity

Figure B.15.4 Case 10B: Force vs. Absolute Displacement
Case 11B: Precycled 1/2 in. Amsteel (85 lb from 60 in.)

Figure B.16.1 Case 11B: Force and Acceleration vs. Time

Figure B.16.2 Case 11B: Combined Plot
Case 11B: Precycled 1/2 in. Amsteel (85 lb from 60 in.)

Figure B.16.3 Case 11B: Force vs. Velocity

Figure B.16.4 Case 11B: Force vs. Absolute Displacement
Case 1C: New 3/8 in. Amsteel (65 lb from 54 in.)

Figure B.17.1 Case 1C: Force and Acceleration vs. Time

Figure B.17.2 Case 1C: Combined Plot
Figure B.17.3 Case 1C: Force vs. Velocity

Figure B.17.4 Case 1C: Force vs. Absolute Displacement
Case 2C: New 3/8 in. Amsteel (65 lb from 66 in.)

Figure B.18.1 Case 2C: Force and Acceleration vs. Time

Case 2C: New 3/8 in. Amsteel (65 lb from 66 in.)

Figure B.18.2 Case 2C: Combined Plot
Case 2C: New 3/8 in. Amsteel (65 lb from 66 in.)

Figure B.18.3 Case 2C: Force vs. Velocity

Figure B.18.4 Case 2C: Force vs. Absolute Displacement
Figure B.19.1 Case 3C: Force and Acceleration vs. Time

Figure B.19.2 Case 3C: Combined Plot
Case 3C: New 3/8 in. Amsteel (65 lb from 78 in.)

Figure B.19.3 Case 3C: Force vs. Velocity

Figure B.19.4 Case 3C: Force vs. Absolute Displacement
Case 4C: New 3/8 in. Amsteel (65 lb from 90 in.)

Figure B.20.1 Case 4C: Force and Acceleration vs. Time

Figure B.20.2 Case 4C: Combined Plot
Figure B.20.3 Case 4C: Force vs. Velocity

Figure B.20.4 Case 4C: Force vs. Absolute Displacement
Case 5C: New 3/8 in. Amsteel (85 lb from 54 in.)

Figure B.21.1 Case 5C: Force and Acceleration vs. Time

Figure B.21.2 Case 5C: Combined Plot
Case 5C: New 3/8 in. Amsteel (85 lb from 54 in.)

![Case 5C: Force vs. Velocity Graph](image)

Figure B.21.3 Case 5C: Force vs. Velocity

Case 5C: New 3/8 in. Amsteel (85 lb from 54 in.)

![Case 5C: Force vs. Absolute Displacement Graph](image)

Figure B.21.4 Case 5C: Force vs. Absolute Displacement
Case 6C: New 3/8 in. Amsteel (85 lb from 54 in.)

Figure B.22.1 Case 6C: Force and Acceleration vs. Time

Case 6C: New 3/8 in. Amsteel (85 lb from 54 in.)

Figure B.22.2 Case 6C: Combined Plot
Case 6C: New 3/8 in. Amsteel (85 lb from 54 in.)

Figure B.22.3 Case 6C: Force vs. Velocity

Figure B.22.4 Case 6C: Force vs. Absolute Displacement
Case 7C: New 3/8 in. Amsteel (85 lb from 54 in.)

Figure B.23.1 Case 7C: Force and Acceleration vs. Time

Figure B.23.2 Case 7C: Combined Plot
Figure B.23.3 Case 7C: Force vs. Velocity

Figure B.23.4 Case 7C: Force vs. Absolute Displacement
Figure B.24.1 Case 8C: Force and Acceleration vs. Time

Figure B.24.2 Case 8C: Combined Plot
Figure B.24.3 Case 8C: Force vs. Velocity

Figure B.24.4 Case 8C: Force vs. Absolute Displacement
Figure B.25.1 Case 9C: Force and Acceleration vs. Time

Figure B.25.2 Case 9C: Combined Plot
Figure B.25.3 Case 9C: Force vs. Velocity

Figure B.25.4 Case 9C: Force vs. Absolute Displacement
Figure B.26.1 Case 10C: Force and Acceleration vs. Time

Figure B.26.2 Case 10C: Combined Plot
Figure B.26.3 Case 10C: Force vs. Velocity

Figure B.26.4 Case 10C: Force vs. Absolute Displacement
Case 11C: New 3/8 in. Amsteel (65 lb from 54 in.)

Figure B.27.1 Case 11C: Force and Acceleration vs. Time

Case 11C: New 3/8 in. Amsteel (65 lb from 54 in.)

Figure B.27.2 Case 11C: Combined Plot
Figure B.27.3 Case 11C: Force vs. Velocity

Figure B.27.4 Case 11C: Force vs. Absolute Displacement
Case 12C: New 3/8 in. Amsteel (45 lb from 54 in.)

Figure B.28.1 Case 12C: Force and Acceleration vs. Time

Figure B.28.2 Case 12C: Combined Plot
Figure B.28.3 Case 12C: Force vs. Velocity

Figure B.28.4 Case 12C: Force vs. Absolute Displacement
Case 13C: New 3/8 in. Amsteel (65 lb from 54 in.)

Figure B.29.1 Case 13C: Force and Acceleration vs. Time

Case 13C: New 3/8 in. Amsteel (65 lb from 54 in.)

Figure B.29.2 Case 13C: Combined Plot
Case 13C: New 3/8 in. Amsteel (65 lb from 54 in.)

Figure B.29.3 Case 13C: Force vs. Velocity

Case 13C: New 3/8 in. Amsteel (65 lb from 54 in.)

Figure B.29.4 Case 13C: Force vs. Absolute Displacement
Figure B.30.1 Case 14C: Force and Acceleration vs. Time

Figure B.30.2 Case 14C: Combined Plot
Case 14C: New 3/8 in. Amsteel (85 lb from 54 in.)

Figure B.30.3 Case 14C: Force vs. Velocity

Figure B.30.4 Case 14C: Force vs. Absolute Displacement
Figure B.31.1 Case 15C: Force and Acceleration vs. Time

Figure B.31.2 Case 15C: Combined Plot
Figure B.31.3 Case 15C: Force vs. Velocity

Figure B.31.4 Case 15C: Force vs. Absolute Displacement
Figure B.32.1 Case 16C: Force and Acceleration vs. Time

Figure B.32.2 Case 16C: Combined Plot
Figure B.32.3 Case 16C: Force vs. Velocity

Figure B.32.4 Case 16C: Force vs. Absolute Displacement
Case 1D: New 1/2 in. Amsteel (65 lb from 54 in.)

Figure B.33.1 Case 1D: Force and Acceleration vs. Time

Case 1D: New 1/2 in. Amsteel (65 lb from 54 in.)

Figure B.33.2 Case 1D: Combined Plot
Case 1D: New 1/2 in. Amsteel (65 lb from 54 in.)

Figure B.33.3 Case 1D: Force vs. Velocity

Case 1D: New 1/2 in. Amsteel (65 lb from 54 in.)

Figure B.33.4 Case 1D: Force vs. Absolute Displacement

150
Case 2D: New 1/2 in. Amsteel (65 lb from 66 in.)

Figure B.34.1 Case 2D: Force and Acceleration vs. Time

Figure B.34.2 Case 2D: Combined Plot
Case 2D: New 1/2 in. Amsteel (65 lb from 66 in.)

Figure B.34.3 Case 2D: Force vs. Velocity

Figure B.34.4 Case 2D: Force vs. Absolute Displacement
Case 3D: New 1/2 in. Amsteel (65 lb from 78 in.)

Figure B.35.1 Case 3D: Force and Acceleration vs. Time

Case 3D: New 1/2 in. Amsteel (65 lb from 78 in.)

Figure B.35.2 Case 3D: Combined Plot
Case 3D: New 1/2 in. Amsteel (65 lb from 78 in.)

Figure B.35.3 Case 3D: Force vs. Velocity

Figure B.35.4 Case 3D: Force vs. Absolute Displacement
Case 4D: New 1/2 in. Amsteel (65 lb from 90 in.)

Figure B.36.1 Case 4D: Force and Acceleration vs. Time

Figure B.36.2 Case 4D: Combined Plot
Figure B.36.3 Case 4D: Force vs. Velocity

Figure B.36.4 Case 4D: Force vs. Absolute Displacement
Case 5D: New 1/2 in. Amsteel (65 lb from 96 in.)

![Graph of Case 5D: Force and Acceleration vs. Time](image1)

Figure B.37.1 Case 5D: Force and Acceleration vs. Time

Case 5D: New 1/2 in. Amsteel (65 lb from 96 in.)

![Graph of Case 5D: Combined Plot](image2)

Figure B.37.2 Case 5D: Combined Plot
Figure B.37.3 Case 5D: Force vs. Velocity

Figure B.37.4 Case 5D: Force vs. Absolute Displacement
Figure B.38.1 Case 6D: Force and Acceleration vs. Time

Figure B.38.2 Case 6D: Combined Plot
Case 6D: New 1/2 in. Amsteel (85 lb from 59 in.)

Figure B.38.3 Case 6D: Force vs. Velocity

Case 6D: New 1/2 in. Amsteel SLV (85 lbs. from 59 in.)

Figure B.38.4 Case 6D: Force vs. Absolute Displacement
Figure B.39.1 Case 7D: Force and Acceleration vs. Time

Figure B.39.2 Case 7D: Combined Plot
Case 7D: New 1/2 in. Amsteel (85 lb from 71 in.)

Figure B.39.3 Case 7D: Force vs. Velocity

Figure B.39.4 Case 7D: Force vs. Absolute Displacement
Case 8D: New 1/2 in. Amsteel (65 lb from 59 in.)

Figure B.40.1 Case 8D: Force and Acceleration vs. Time

Case 8D: New 1/2 in. Amsteel (65 lb from 59 in.)

Figure B.40.2 Case 8D: Combined Plot
Case 8D: New 1/2 in. Amsteel (65 lb from 59 in.)

![Graph showing Force vs. Velocity](image1)

Figure B.40.3 Case 8D: Force vs. Velocity

Case 8D: New 1/2 in. Amsteel (65 lb from 59 in.)

![Graph showing Force vs. Absolute Displacement](image2)

Figure B.40.4 Case 8D: Force vs. Absolute Displacement

164
Figure B.41.1 Case 9D: Force and Acceleration vs. Time

Figure B.41.2 Case 9D: Combined Plot
Case 9D: New 1/2 in. Amsteel (65 lb from 59 in.)

Figure B.41.3 Case 9D: Force vs. Velocity

Figure B.41.4 Case 9D: Force vs. Absolute Displacement
Case 10D: New 1/2 in. Amsteel (65 lb from 59 in.)

Figure B.42.1 Case 10D: Force and Acceleration vs. Time

Figure B.42.2 Case 10D: Combined Plot
Case 10D: New 1/2 in. Amsteel (65 lb from 59 in.)

Figure B.42.3 Case 10D: Force vs. Velocity

Figure B.42.4 Case 10D: Force vs. Absolute Displacement

168
Figure B.43.1 Case 11D: Force and Acceleration vs. Time

Figure B.43.2 Case 11D: Combined Plot
Case 11D: New 1/2 in. Amsteel (65 lb from 59 in.)

Figure B.43.3 Case 11D: Force vs. Velocity

Figure B.43.4 Case 11D: Force vs. Absolute Displacement
Figure B.44.1 Case 12D: Force and Acceleration vs. Time

Figure B.44.2 Case 12D: Combined Plot
Case 12D: New 1/2 in. Amsteel (65 lb from 59 in.)

Figure B.44.3 Case 12D: Force vs. Velocity

Figure B.44.4 Case 12D: Force vs. Absolute Displacement
Figure B.45.1 Case 13D: Force and Acceleration vs. Time

Figure B.45.2 Case 13D: Combined Plot
Figure B.45.3 Case 13D: Force vs. Velocity

Figure B.45.4 Case 13D: Force vs. Absolute Displacement
Case 1FF: Precycled 7 ft. 3/8 in. Amsteel (45 lb from 64 in.)

Figure B.46.1 Case 1FF: Force and Acceleration vs. Time

Case 1FF: Precycled 7 ft. 3/8 in. Amsteel (45 lb from 64 in.)

Figure B.46.2 Case 1FF: Combined Plot
Case 1FF: Precycled 7 ft. 3/8 in. Amsteel (45 lb from 64 in.)

Figure B.46.3 Case 1FF: Force vs. Velocity

Case 1FF: Precycled 7 ft. 3/8 in. Amsteel (45 lb from 64 in.)

Figure B.46.4 Case 1FF: Force vs. Absolute Displacement
Case 2FF: Precycled 7 ft. 3/8 in. Amsteel (65 lb from 64 in.)

Figure B.47.1 Case 2FF: Force and Acceleration vs. Time

Figure B.47.2 Case 2FF: Combined Plot
Figure B.47.3 Case 2FF: Force vs. Velocity

Figure B.47.4 Case 2FF: Force vs. Absolute Displacement
Case 3FF: Precycled 7 ft. 3/8 in. Amsteel (105 lb from 64 in.)

![Figure B.48.1 Case 3FF: Force and Acceleration vs. Time](image1)

![Figure B.48.2 Case 3FF: Combined Plot](image2)
Figure B.48.3 Case 3FF: Force vs. Velocity

Figure B.48.4 Case 3FF: Force vs. Absolute Displacement
Figure B.49.1 Case 4FF: Force and Acceleration vs. Time

Figure B.49.2 Case 4FF: Combined Plot
Case 4FF: Precycled 7 ft. 3/8 in. Amsteel (105 lb from 64 in.)

![Graph showing Force vs. Velocity](image)

Figure B.49.3 Case 4FF: Force vs. Velocity

Case 4FF: Precycled 7 ft. 3/8 in. Amsteel (105 lb from 64 in.)

![Graph showing Force vs. Absolute Displacement](image)

Figure B.49.4 Case 4FF: Force vs. Absolute Displacement
Case 5FF: Precycled 7 ft. Amsteel (105 lb from 64 in.)

Figure B.50.1 Case 5FF: Force and Acceleration vs. Time

Figure B.50.2 Case 5FF: Combined Plot
Case 5FF: Precycled 7 ft. Amsteel (105 lb from 64 in.)

Figure B.50.3 Case 5FF: Force vs. Velocity

Figure B.50.4 Case 5FF: Force vs. Absolute Displacement
<table>
<thead>
<tr>
<th>Case ID</th>
<th>Drop Number</th>
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<th>Weight (lb)</th>
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<td></td>
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<tr>
<td>Test 11E</td>
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<td>57</td>
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Table B.2.1 Test Sequence for 1/2 in. Amsteel II (Precycled)

<table>
<thead>
<tr>
<th>Case ID</th>
<th>Drop Number</th>
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<th>Weight (lb)</th>
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<td>Test 10F</td>
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</table>

| Test Sequence Three | | | |
| Test 11F | 11 | 56 | 115 |
| Test 12F | 12 | 56 | 115 |
| Test 13F | 13 | 56 | 115 |
| Test 14F | 14 | 56 | 105 |
| Test 15F | 15 | 56 | 85 |
| Test 16F | 16 | 56 | 65 |
| Test 17F | 17 | 56 | 45 |

Table B.2.2 Test Sequence for 1/2 in. Amsteel II (New)
### 3/8-inch Amsteel II (Precycled)

<table>
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<th>Case ID</th>
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<th>Weight (lb)</th>
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<td>Test Sequence Two</td>
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<td>Test 7G</td>
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<td>Test 8G</td>
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</tr>
<tr>
<td>Test 9G</td>
<td>9</td>
<td>69</td>
<td>85</td>
</tr>
</tbody>
</table>

Table B.2.3 Test Sequence for 3/8 in. Amsteel II (Precycled)

### 3/8-inch Amsteel II (New)

<table>
<thead>
<tr>
<th>Case ID</th>
<th>Drop Number</th>
<th>Drop Height (in.)</th>
<th>Weight (lb)</th>
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<tbody>
<tr>
<td>Test Sequence One</td>
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</tr>
<tr>
<td>Test 1H</td>
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<td>Test 2H</td>
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<tr>
<td>Test 9H</td>
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Table B.2.4 Test Sequence for 3/8 in. Amsteel II (New)
Case 1E: Precycled 1/2 in. Amsteel II (85 lb from 56 in.)

Figure B.51.1 Case 1E: Force and Acceleration vs. Time

Figure B.51.2 Case 1E: Combined Plot
Case 1E: Precycled 1/2 in. Amsteel II (85 lb from 56 in.)

Figure B.51.3 Case 1E: Force vs. Velocity

Figure B.51.4 Case 1E: Force vs. Absolute Displacement
Case 2E: Precycled 1/2 in. Amsteel II (85 lb from 56 in.)

Figure B.52.1 Case 2E: Force and Acceleration vs. Time

Figure B.52.2 Case 2E: Combined Plot
Case 2E: Precycled 1/2 in. Amsteel II (85 lb from 56 in.)

Figure B.52.3 Case 2E: Force vs. Velocity

Figure B.52.4 Case 2E: Force vs. Absolute Displacement
Figure B.53.1 Case 3E: Force and Acceleration vs. Time

Figure B.53.2 Case 3E: Combined Plot
Case 3E: Precycled 1/2 in. Amsteel II (85 lb from 56 in.)

Figure B.53.3 Case 3E: Force vs. Velocity

Figure B.53.4 Case 3E: Force vs. Absolute Displacement
Figure B.54.1 Case 4E: Force and Acceleration vs. Time

Figure B.54.2 Case 4E: Combined Plot
Figure B.54.3 Case 4E: Force vs. Velocity

Figure B.54.4 Case 4E: Force vs. Absolute Displacement
Case 5E: Precycled 1/2 in. Amsteel II (85 lb from 56 in.)

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**Figure B.55.1 Case 5E: Force and Acceleration vs. Time**

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**Figure B.55.2 Case 5E: Combined Plot**

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195
Figure B.55.3 Case 5E: Force vs. Velocity

Figure B.55.4 Case 5E: Force vs. Absolute Displacement
Figure B.56.1 Case 6E: Force and Acceleration vs. Time

Figure B.56.2 Case 6E: Combined Plot
Figure B.56.3 Case 6E: Force vs. Velocity

Figure B.56.4 Case 6E: Force vs. Absolute Displacement
Case 7E: Precycled 1/2 in. Amsteel II (105 lb from 57 in.)

Figure B.57.1 Case 7E: Force and Acceleration vs. Time

Figure B.57.2 Case 7E: Combined Plot
Case 7E: Precycled 1/2 in. Amsteel II (105 lb from 57 in.)

Figure B.57.3 Case 7E: Force vs. Velocity

Case 7E: Precycled 1/2 in. Amsteel II (105 lb from 57 in.)

Figure B.57.4 Case 7E: Force vs. Absolute Displacement
Case 8E: Precycled 1/2 in. Amsteel II (105 lb from 57 in.)

Figure B.58.1 Case 8E: Force and Acceleration vs. Time

Figure B.58.2 Case 8E: Combined Plot
Case 8E: Precycled 1/2 in. Amsteel II (105 lb from 57 in.)

Figure B.58.3 Case 8E: Force vs. Velocity

Figure B.58.4 Case 8E: Force vs. Absolute Displacement
Case 9E: Precycled 1/2 in. Amsteel II (105 lb from 57 in.)

Figure B.59.1 Case 9E: Force and Acceleration vs. Time

Figure B.59.2 Case 9E: Combined Plot
Figure B.59.3 Case 9E: Force vs. Velocity

Figure B.59.4 Case 9E: Force vs. Absolute Displacement
Figure B.60.1 Case 10E: Force and Acceleration vs. Time

Figure B.60.2 Case 10E: Combined Plot
Figure B.60.3 Case 10E: Force vs. Velocity

Figure B.60.4 Case 10E: Force vs. Absolute Displacement
Case 11E: Precycled 1/2 in. Amsteel II (105 lb from 57 in.)

![Graph showing force and acceleration vs. time.](image)

Figure B.61.1 Case 11E: Force and Acceleration vs. Time

Case 11E: Precycled 1/2 in. Amsteel II (105 lb from 57 in.)

![Graph showing combined plot.](image)

Figure B.61.2 Case 11E: Combined Plot
Figure B.61.3 Case 11E: Force vs. Velocity

Figure B.61.4 Case 11E: Force vs. Absolute Displacement
Case 1F: New 1/2 in. Amsteel II (85 lb from 56 in.)

Figure B.62.1 Case 1F: Force and Acceleration vs. Time

Case 1F: New 1/2 in. Amsteel II (85 lb from 56 in.)

Figure B.62.2 Case 1F: Combined Plot
Case 1F: New 1/2 in. Amsteel II (85 lb from 56 in.)

Figure B.62.3 Case 1F: Force vs. Velocity

Figure B.62.4 Case 1F: Force vs. Absolute Displacement
Figure B.63.1 Case 2F: Force and Acceleration vs. Time

Figure B.63.2 Case 2F: Combined Plot
Case 2F: New 1/2 in. Amsteel II (85 lb from 56 in.)

Figure B.63.3 Case 2F: Force vs. Velocity

Case 2F: New 1/2 in. Amsteel II (85 lb from 56 in.)

Figure B.63.4 Case 2F: Force vs. Absolute Displacement
Figure B.64.1 Case 3F: Force and Acceleration vs. Time

Figure B.64.2 Case 3F: Combined Plot
Case 3F: New 1/2 in. Amsteel II (85 lb from 56 in.)

Figure B.64.3 Case 3F: Force vs. Velocity

Figure B.64.4 Case 3F: Force vs. Absolute Displacement

214
Case 4F: New 1/2 in. Amsteel II (85 lb from 56 in.)

Figure B.65.1 Case 4F: Force and Acceleration vs. Time

Figure B.65.2 Case 4F: Combined Plot
Case 4F: New 1/2 in. Amsteel II (85 lb from 56 in.)

Figure B.65.3 Case 4F: Force vs. Velocity

Figure B.65.4 Case 4F: Force vs. Absolute Displacement
Figure B.66.1 Case 5F: Force and Acceleration vs. Time

Figure B.66.2 Case 5F: Combined Plot
Figure B.66.3 Case 5F: Force vs. Velocity

Figure B.66.4 Case 5F: Force vs. Absolute Displacement
Case 6F: New 1/2 in. Amsteel II (85 lb from 56 in.)

Figure B.67.1 Case 6F: Force and Acceleration vs. Time

Figure B.67.2 Case 6F: Combined Plot
Case 6F: New 1/2 in. Amsteel II (85 lb from 56 in.)

Figure B.67.3 Case 6F: Force vs. Velocity

Figure B.67.4 Case 6F: Force vs. Absolute Displacement

220
Case 7F: New 1/2 in. Amsteel II (105 lb from 57 in.)

Figure B.68.1 Case 7F: Force and Acceleration vs. Time

Figure B.68.2 Case 7F: Combined Plot
Case 2F: New 1/2 in. Amsteel II (105 lb from 57 in.)

Figure B.68.3 Case 7F: Force vs. Velocity

Case 2F: New 1/2 in. Amsteel II (105 lb from 57 in.)

Figure B.68.4 Case 7F: Force vs. Absolute Displacement
Case 8F: New 1/2 in. Amsteel II (105 lb from 57 in.)

Figure B.69.1 Case 8F: Force and Acceleration vs. Time

Case 8F: New 1/2 in. Amsteel II (105 lb from 57 in.)

Figure B.69.2 Case 8F: Combined Plot
Case 8F: New 1/2 in. Amsteel II (105 lb from 57 in.)

Figure B.69.3 Case 8F: Force vs. Velocity

Case 8F: New 1/2 in. Amsteel II (105 lb from 57 in.)

Figure B.69.4 Case 8F: Force vs. Absolute Displacement
Figure B.70.1 Case 9F: Force and Acceleration vs. Time

Figure B.70.2 Case 9F: Combined Plot
Case 9F: New 1/2 in. Amsteel II (105 lb from 57 in.)

![Graph showing force vs. velocity](image1)

Figure B.70.3 Case 9F: Force vs. Velocity

Case 9F: New 1/2 in. Amsteel II (105 lb from 57 in.)

![Graph showing force vs. absolute displacement](image2)

Figure B.70.4 Case 9F: Force vs. Absolute Displacement
Figure B.71.1 Case 10F: Force and Acceleration vs. Time

Figure B.71.2 Case 10F: Combined Plot
Figure B.71.3 Case 10F: Force vs. Velocity

Figure B.71.4 Case 10F: Force vs. Absolute Displacement
Figure B.72.1 Case 11F: Force and Acceleration vs. Time

Figure B.72.2 Case 11F: Combined Plot
Figure B.72.3 Case 11F: Force vs. Velocity

Figure B.72.4 Case 11F: Force vs. Absolute Displacement
Figure B.73.1 Case 12F: Force and Acceleration vs. Time

Figure B.73.2 Case 12F: Combined Plot

231
Case 12F: New 1/2 in. Amsteel II (115 lb from 56 in.)

Figure B.73.3 Case 12F: Force vs. Velocity

Figure B.73.4 Case 12F: Force vs. Absolute Displacement
Figure B.74.1 Case 13F: Force and Acceleration vs. Time

Figure B.74.2 Case 13F: Combined Plot
Case 13F: New 1/2 in. Amsteel II (115 lb from 56 in.)

Figure B.74.3 Case 13F: Force vs. Velocity

Figure B.74.4 Case 13F: Force vs. Absolute Displacement

234
Figure B.75.1 Case 14F: Force and Acceleration vs. Time

Figure B.75.2 Case 14F: Combined Plot
Case 14F: New 1/2 in. Amsteel II (105 lb from 56 in.)

Figure B.75.3 Case 14F: Force vs. Velocity

Figure B.75.4 Case 14F: Force vs. Absolute Displacement

236
Figure B.76.1 Case 15F: Force and Acceleration vs. Time

Figure B.76.2 Case 15F: Combined Plot
Figure B.76.3 Case 15F: Force vs. Velocity

Figure B.76.4 Case 15F: Force vs. Absolute Displacement
Figure B.77.1 Case 16F: Force and Acceleration vs. Time

Figure B.77.2 Case 16F: Combined Plot
Figure B.77.3 Case 16F: Force vs. Velocity

Figure B.77.4 Case 16F: Force vs. Absolute Displacement
Figure B.78.1 Case 17F: Force and Acceleration vs. Time

Figure B.78.2 Case 17F: Combined Plot
Case 17F: New 1/2 in. Amsteel II (45 lb from 56 in.)

Figure B.78.3 Case 17F: Force vs. Velocity

Figure B.78.4 Case 17F: Force vs. Absolute Displacement

242
Figure B.79.1 Case 1G: Force and Acceleration vs. Time

Figure B.79.2 Case 1G: Combined Plot
Figure B.79.3 Case 1G: Force vs. Velocity

Figure B.79.4 Case 1G: Force vs. Absolute Displacement
Case 2G: Precycled 3/8 in. Amsteel II (65 lb from 91 in.)

Figure B.80.1 Case 2G: Force and Acceleration vs. Time

Figure B.80.2 Case 2G: Combined Plot
Figure B.80.3 Case 2G: Force vs. Velocity

Figure B.80.4 Case 2G: Force vs. Absolute Displacement
Figure B.81.1 Case 3G: Force and Acceleration vs. Time

Figure B.81.2 Case 3G: Combined Plot
Case 3G: Precycled 3/8 in. Amsteel II (65 lb from 85 in.)

Figure B.81.3 Case 3G: Force vs. Velocity

Figure B.81.4 Case 3G: Force vs. Absolute Displacement
Figure B.82.1 Case 4G: Force and Acceleration vs. Time

Figure B.82.2 Case 4G: Combined Plot
Case 4G: Precycled 3/8 in. Amsteel II (65 lb from 79 in.)

Figure B.82.3 Case 4G: Force vs. Velocity

Figure B.82.4 Case 4G: Force vs. Absolute Displacement
Case 5G: Precycled 3/8 in. Amsteel II (65 lb from 73 in.)

Figure B.83.1 Case 5G: Force and Acceleration vs. Time

Figure B.83.2 Case 5G: Combined Plot
Case 5G: Precycled 3/8 in. Amsteel II (65 lb from 73 in.)

Figure B.83.3 Case 5G: Force vs. Velocity

Case 5G: Precycled 3/8 in. Amsteel II (65 lb from 73 in.)

Figure B.83.4 Case 5G: Force vs. Absolute Displacement
Figure B.84.1 Case 6G: Force and Acceleration vs. Time

Figure B.84.2 Case 6G: Combined Plot
Figure B.84.3 Case 6G: Force vs. Velocity

Figure B.84.4 Case 6G: Force vs. Absolute Displacement
Figure B.85.1 Case 7G: Force and Acceleration vs. Time

Figure B.85.2 Case 7G: Combined Plot
Case 7G: Precycled 3/8 in. Amsteel II (85 lb from 57 in.)

Figure B.85.3 Case 7G: Force vs. Velocity

Case 7G: Precycled 3/8 in. Amsteel II (85 lb from 57 in.)

Figure B.85.4 Case 7G: Force vs. Absolute Displacement
Figure B.86.1 Case 8G: Force and Acceleration vs. Time

Figure B.86.2 Case 8G: Combined Plot
Case 8G: Precycled 3/8 in. Amsteel II (85 lb from 63 in.)

Figure B.86.3 Case 8G: Force vs. Velocity

Figure B.86.4 Case 8G: Force vs. Absolute Displacement
Case 9G: Precycled 3/8 in. Amsteel II (85 lb from 69 in.)

Figure B.87.1 Case 9G: Force and Acceleration vs. Time

Case 9G: Precycled 3/8 in. Amsteel II (85 lb from 69 in.)

Figure B.87.2 Case 9G: Combined Plot
Case 9G: Precycled 3/8 in. Amsteel II (85 lb from 69 in.)

Figure B.87.3 Case 9G: Force vs. Velocity

Figure B.87.4 Case 9G: Force vs. Absolute Displacement
Case 1H: New 3/8 in. Amsteel II (65 lb from 97 in.)

Figure B.88.1 Case 1H: Force and Acceleration vs. Time

Figure B.88.2 Case 1H: Combined Plot
Case 1H: New 3/8 in. Amsteel II (65 lb from 97 in.)

Figure B.88.3 Case 1H: Force vs. Velocity

Figure B.88.4 Case 1H: Force vs. Absolute Displacement
Case 2H: New 3/8 in. Amsteel II (65 lb from 91 in.)

Figure B.89.1 Case 2H: Force and Acceleration vs. Time

Figure B.89.2 Case 2H: Combined Plot
Figure B.89.3 Case 2H: Force vs. Velocity

Figure B.89.4 Case 2H: Force vs. Absolute Displacement
Case 3H: New 3/8 in. Amsteel II (65 lb from 85 in.)

Figure B.90.1 Case 3H: Force and Acceleration vs. Time

Figure B.90.2 Case 3H: Combined Plot
Case 3H: New 3/8 in. Amsteel II (65 lb from 85 in.)

Figure B.90.3 Case 3H: Force vs. Velocity

Figure B.90.4 Case 3H: Force vs. Absolute Displacement
Case 4H: New 3/8 in. Amsteel II (65 lb from 79 in.)

Figure B.91.1 Case 4H: Force and Acceleration vs. Time

Case 4H: New 3/8 in. Amsteel II (65 lb from 79 in.)

Figure B.91.2 Case 4H: Combined Plot
Figure B.91.3 Case 4H: Force vs. Velocity

Figure B.91.4 Case 4H: Force vs. Absolute Displacement
Case 5H: New 3/8 in. Amsteel II (65 lb from 73 in.)

Figure B.92.1 Case 5H: Force and Acceleration vs. Time

Figure B.92.2 Case 5H: Combined Plot
Case 5H: New 3/8 in. Amsteel II (65 lb from 73 in.)

Figure B.92.3 Case 5H: Force vs. Velocity

Case 5H: New 3/8 in. Amsteel II (65 lb from 73 in.)

Figure B.92.4 Case 5H: Force vs. Absolute Displacement
Figure B.93.1 Case 6H: Force and Acceleration vs. Time

Figure B.93.2 Case 6H: Combined Plot
Case 6H: New 3/8 in. Amsteel II (65 lb from 67 in.)

Figure B.93.3 Case 6H: Force vs. Velocity

Figure B.93.4 Case 6H: Force vs. Absolute Displacement
Case 7H: New 3/8 in. Amsteel II (85 lb from 37 in.)

Figure B.94.1 Case 7H: Force and Acceleration vs. Time

Figure B.94.2 Case 7H: Combined Plot
Case 7H: New 3/8 in. Amsteel II (85 lb from 37 in.)

Figure B.94.3 Case 7H: Force vs. Velocity

Case 7H: New 3/8 in. Amsteel II (85 lb from 37 in.)

Figure B.94.4 Case 7H: Force vs. Absolute Displacement
Case 8H: New 3/8 in. Amsteel II (85 lb from 63 in.)

Figure B.95.1 Case 8H: Force and Acceleration vs. Time

Case 8H: New 3/8 in. Amsteel II (85 lb from 63 in.)

Figure B.95.2 Case 8H: Combined Plot
Figure B.95.3 Case 8H: Force vs. Velocity

Figure B.95.4 Case 8H: Force vs. Absolute Displacement
Case 9H: New 3/8 in. Amsteel II (85 lb from 69 in.)

Figure B.96.1 Case 9H: Force and Acceleration vs. Time

Figure B.96.2 Case 9H: Combined Plot
Figure B.96.3 Case 9H: Force vs. Velocity

Figure B.96.4 Case 9H: Force vs. Absolute Displacement
### 3/4-inch RP Ultra Blue (New)

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Table B.3.1 Test Sequence for 3/4 in. RP Ultra Blue (New)

### 3/4-inch RP Ultra Blue (Precycled)

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Table B.3.2 Test Sequence for 3/4 in. RP Ultra Blue (Precycled)
Case 1I: New 3/4 in. RP Ultra Blue (65 lb from 53 in.)

Figure B.97.1 Case 1I: Force and Acceleration vs. Time

Figure B.97.2 Case 1I: Combined Plot
Figure B.97.3 Case 1I: Force vs. Velocity

Figure B.97.4 Case 1I: Force vs. Absolute Displacement
Case 2I: New 3/4 in. RP Ultra Blue (65 lbs. from 53 in.)

Figure B.98.1 Case 2I: Force and Acceleration vs. Time

Case 2I: New 3/4 in. RP Ultra Blue (65 lb from 53 in.)

Figure B.98.2 Case 2I: Combined Plot
Case 2I: New 3/4 in. RP Ultra Blue (65 lb from 53 in.)

Figure B.98.3 Case 2I: Force vs. Velocity

Figure B.98.4 Case 2I: Force vs. Absolute Displacement
Figure B.99.1 Case 3I: Force and Acceleration vs. Time

Figure B.99.2 Case 3I: Combined Plot
Figure B.99.3 Case 3I: Force vs. Velocity

Figure B.99.4 Case 3I: Force vs. Absolute Displacement
Case 4I: New 3/4 in. RP Ultra Blue (65 lbs. from 53 in.)

Figure B.100.1 Case 4I: Force and Acceleration vs. Time

Case 4I: New 3/4 in. RP Ultra Blue (65 lb from 53 in.)

Figure B.100.2 Case 4I: Combined Plot

286
Case 4I: New 3/4 in. RP Ultra Blue (65 lb from 53 in.)

Figure B.100.3 Case 4I: Force vs. Velocity

Figure B.100.4 Case 4I: Force vs. Absolute Displacement
Case 5I: New 3/4 in. RP Ultra Blue (65 lb from 53 in.)

Figure B.101.1 Case 5I: Force and Acceleration vs. Time

Figure B.101.2 Case 5I: Combined Plot
Figure B.101.3 Case 5I: Force vs. Velocity

Figure B.101.4 Case 5I: Force vs. Absolute Displacement
Case 6I: New 3/4 in. RP Ultra Blue (85 lb from 58 in.)

Figure B.102.1 Case 6I: Force and Acceleration vs. Time

Case 6I: New 3/4 in. RP Ultra Blue (85 lb from 58 in.)

Figure B.102.2 Case 6I: Combined Plot
Figure B.102.3 Case 6I: Force vs. Velocity

Figure B.102.4 Case 6I: Force vs. Absolute Displacement
Figure B.103.1 Case 7I: Force and Acceleration vs. Time

Figure B.103.2 Case 7I: Combined Plot
Case 7I: New 3/4 in. RP Ultra Blue (85 lb from 58 in.)

Figure B.103.3 Case 7I: Force vs. Velocity

Figure B.103.4 Case 7I: Force vs. Absolute Displacement
Figure B.104.1 Case 8I: Force and Acceleration vs. Time

Figure B.104.2 Case 8I: Combined Plot
Case 8I: New 3/4 in. RP Ultra Blue (85 lb from 58 in.)

![Graph showing force vs. velocity.](image)

Figure B.104.3 Case 8I: Force vs. Velocity

Figure B.104.4 Case 8I: Force vs. Absolute Displacement
Figure B.105.1 Case 9I: Force and Acceleration vs. Time

Figure B.105.2 Case 9I: Combined Plot
Case 9I: New 3/4 in. RP Ultra Blue (85 lb from 58 in.)

Figure B.105.3 Case 9I: Force vs. Velocity

Case 9I: New 3/4 in. RP Ultra Blue (85 lb from 58 in.)

Figure B.105.4 Case 9I: Force vs. Absolute Displacement
Figure B.106.1 Case 10I: Force and Acceleration vs. Time

Figure B.106.2 Case 10I: Combined Plot
Figure B.106.3 Case 10I: Force vs. Velocity

Figure B.106.4 Case 10I: Force vs. Absolute Displacement
Case 11I: New 3/4 in. RP Ultra Blue (85 lb from 53 in.)

Figure B.107.1 Case 11I: Force and Acceleration vs. Time

Case 11I: New 3/4 in. RP Ultra Blue (85 lb from 53 in.)

Figure B.107.2 Case 11I: Combined Plot
Figure B.107.3 Case 11I: Force vs. Velocity

Figure B.107.4 Case 11I: Force vs. Absolute Displacement
Case 12I: New 3/4 in. RP Ultra Blue (105 lb from 53 in.)

Figure B.108.1 Case 12I: Force and Acceleration vs. Time

Figure B.108.2 Case 12I: Combined Plot
Case 12I: New 3/4 in. RP Ultra Blue (105 lb from 53 in.)

Figure B.108.3 Case 12I: Force vs. Velocity

Figure B.108.4 Case 12I: Force vs. Absolute Displacement
Case 13I: New 3/4 in. RP Ultra Blue (105 lb from 53 in.)

Figure B.109.1 Case 13I: Force and Acceleration vs. Time

Case 13I: New 3/4 in. RP Ultra Blue (105 lb from 53 in.)

Figure B.109.2 Case 13I: Combined Plot
Case 13I: New 3/4 in. RP Ultra Blue (105 lb from 53 in.)

![Force vs. Velocity](image1)

Figure B.109.3 Case 13I: Force vs. Velocity

![Force vs. Absolute Displacement](image2)

Figure B.109.4 Case 13I: Force vs. Absolute Displacement
Figure B.110.1 Case 14I: Force and Acceleration vs. Time

Figure B.110.2 Case 14I: Combined Plot
Figure B.110.3 Case 14I: Force vs. Velocity

Figure B.110.4 Case 14I: Force vs. Absolute Displacement
Figure B.111.1 Case 15I: Force and Acceleration vs. Time

Figure B.111.2 Case 15I: Combined Plot
Case 15I: New 3/4 in. RP Polyester (65 lb from 53 in.)

Figure B.111.3 Case 15I: Force vs. Velocity

Case 15I: New 3/4 in. RP Polyester (65 lb from 53 in.)

Figure B.111.4 Case 15I: Force vs. Absolute Displacement
Case 16I: New 3/4 in. RP Ultra Blue (45 lb from 53 in.)

Figure B.112.1 Case 16I: Force and Acceleration vs. Time

Figure B.112.2 Case 16I: Combined Plot
Figure B.112.3 Case 16I: Force vs. Velocity

Figure B.112.4 Case 16I: Force vs. Absolute Displacement
Figure B.113.1 Case 1J: Force and Acceleration vs. Time

Figure B.113.2 Case 1J: Combined Plot
Figure B.113.3 Case 1J: Force vs. Velocity

Figure B.113.4 Case 1J: Force vs. Absolute Displacement
Case 2J: Precycled 3/4 in. RP Ultra Blue (65 lb from 66 in.)

Figure B.114.1 Case 2J: Force and Acceleration vs. Time

Figure B.114.2 Case 2J: Combined Plot
Case 2J: Precycled 3/4 in. RP Ultra Blue (65 lb from 66 in.)

Figure B.114.3 Case 2J: Force vs. Velocity

Figure B.114.4 Case 2J: Force vs. Absolute Displacement
Case 3J: Precycled ¾ in. RP Ultra Blue (65 lb from 78 in.)

Figure B.115.1 Case 3J: Force and Acceleration vs. Time

Figure B.115.2 Case 3J: Combined Plot
Figure B.115.3 Case 3J: Force vs. Velocity

Figure B.115.4 Case 3J: Force vs. Absolute Displacement
Figure B.116.1 Case 4J: Force and Acceleration vs. Time

Figure B.116.2 Case 4J: Combined Plot
Figure B.116.3 Case 4J: Force vs. Velocity

Figure B.116.4 Case 4J: Force vs. Absolute Displacement
Case 5J: Precycled 3/4 in. RP Ultra Blue (65 lb from 96 in.)

Figure B.117.1 Case 5J: Force and Acceleration vs. Time

Figure B.117.2 Case 5J: Combined Plot
Figure B.117.3 Case 5J: Force vs. Velocity

Figure B.117.4 Case 5J: Force vs. Absolute Displacement
Case 6J: Precycled 3/4 in. RP Ultra Blue (85 lb from 58 in.)

Figure B.118.1 Case 6J: Force and Acceleration vs. Time

Figure B.118.2 Case 6J: Combined Plot
Figure B.118.3 Case 6J: Force vs. Velocity

Figure B.118.4 Case 6J: Force vs. Absolute Displacement
Case 7J: Precycled 3/4 in. RP Ultra Blue (85 lb from 70 in.)

Figure B.119.1 Case 7J: Force and Acceleration vs. Time

Case 7J: Precycled 3/4 in. RP Ultra Blue (85 lb from 70 in.)

Figure B.119.2 Case 7J: Combined Plot
Figure B.119.3 Case 7J: Force vs. Velocity

Figure B.119.4 Case 7J: Force vs. Absolute Displacement
Figure B.120.1 Case 8J: Force and Acceleration vs. Time

Figure B.120.2 Case 8J: Combined Plot
Case 8J: Precycled 3/4 in. RP Ultra Blue (85 lb from 82 in.)

Figure B.120.3 Case 8J: Force vs. Velocity

Figure B.120.4 Case 8J: Force vs. Absolute Displacement
Figure B.121.1 Case 9J: Force and Acceleration vs. Time

Figure B.121.2 Case 9J: Combined Plot
Figure B.121.3 Case 9J: Force vs. Velocity

Figure B.121.4 Case 9J: Force vs. Absolute Displacement
Case 10J: Precycled 3/4 in. RP Ultra Blue (105 lb from 59 in.)

Figure B.122.1 Case 10J: Force and Acceleration vs. Time

Figure B.122.2 Case 10J: Combined Plot
Case 10J: Precycled 3/4 in. RP Ultra Blue (105 lb from 59 in.)

Figure B.122.3 Case 10J: Force vs. Velocity

Figure B.122.4 Case 10J: Force vs. Absolute Displacement

331
Case 11J: Precycled 3/4 in. RP Ultra Blue (105 lb from 59 in.)

Figure B.123.1 Case 11J: Force and Acceleration vs. Time

Case 11J: Precycled 3/4 in. RP Ultra Blue (105 lb from 59 in.)

Figure B.123.2 Case 11J: Combined Plot
Case 11J: Precycled 3/4 in. RP Ultra Blue (105 lb from 59 in.)

![Figure B.123.3 Case 11J: Force vs. Velocity](image.png)

Figure B.123.3 Case 11J: Force vs. Velocity

Case 11J: Precycled 3/4 in. RP Ultra Blue (105 lb from 59 in.)

![Figure B.123.4 Case 11J: Force vs. Absolute Displacement](image.png)

Figure B.123.4 Case 11J: Force vs. Absolute Displacement

333
Case 12J: Precycled 3/4 in. RP Ultra Blue (105 lb from 59 in.)

Figure B.124.1 Case 12J: Force and Acceleration vs. Time

Case 12J: Precycled 3/4 in. RP Ultra Blue (105 lb from 59 in.)

Figure B.124.2 Case 12J: Combined Plot
Figure B.124.3 Case 12J: Force vs. Velocity

Figure B.124.4 Case 12J: Force vs. Absolute Displacement
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Table B.4.1 Test Sequence for 1/2 in. Tech 12 (New)
### 1/2-inch Tech 12 (Precycled)

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Table B.4.2 Test Sequence for 1/2 in. Tech 12 (Precycled)

### 3/8-inch Tech 12 (New)

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Table B.4.3 Test Sequence for 3/8 in. Tech 12 (New)
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Table B.4.4 Test Sequence for 3/8 in. Tech 12 (Precycled)
Case 1K: New 1/2 in. Tech 12 (65 lb from 54 in.)

Figure B.125.1 Case 1K: Force and Acceleration vs. Time

Figure B.125.2 Case 1K: Combined Plot
Figure B.125.3 Case 1K: Force vs. Velocity

Figure B.125.4 Case 1K: Force vs. Absolute Displacement
Figure B.126.1 Case 2K: Force and Acceleration vs. Time

Figure B.126.2 Case 2K: Combined Plot
Figure B.126.3 Case 2K: Force vs. Velocity

Figure B.126.4 Case 2K: Force vs. Absolute Displacement
Case 3K: New 1/2 in. Tech 12 (65 lb from 78 in.)

![Figure B.127.1 Case 3K: Force and Acceleration vs. Time](image)

Figure B.127.1 Case 3K: Force and Acceleration vs. Time

Case 3K: New 1/2 in. Tech 12 (65 lb from 78 in.)

![Figure B.127.2 Case 3K: Combined Plot](image)

Figure B.127.2 Case 3K: Combined Plot
Figure B.127.3 Case 3K: Force vs. Velocity

Figure B.127.4 Case 3K: Force vs. Absolute Displacement
Figure B.128.1 Case 4K: Force and Acceleration vs. Time

Figure B.128.2 Case 4K: Combined Plot
Figure B.128.3 Case 4K: Force vs. Velocity

Figure B.128.4 Case 4K: Force vs. Absolute Displacement
Figure B.129.1 Case 5K: Force and Acceleration vs. Time

Figure B.129.2 Case 5K: Combined Plot
Figure B.129.3 Case 5K: Force vs. Velocity

Figure B.129.4 Case 5K: Force vs. Absolute Displacement
Figure B.130.1 Case 6K: Force and Acceleration vs. Time

Figure B.130.2 Case 6K: Combined Plot
Figure B.130.3 Case 6K: Force vs. Velocity

Figure B.130.4 Case 6K: Force vs. Absolute Displacement
Case 7K: New 1/2 in. Tech 12 (85 lb from 70 in.)

Figure B.131.1 Case 7K: Force and Acceleration vs. Time

Figure B.131.2 Case 7K: Combined Plot
Figure B.131.3 Case 7K: Force vs. Velocity

Figure B.131.4 Case 7K: Force vs. Absolute Displacement
Case 8K: New 1/2 in. Tech 12 (85 lb from 82 in.)

Figure B.132.1 Case 8K: Force and Acceleration vs. Time

Case 8K: New 1/2 in. Tech 12 (85 lb from 82 in.)

Figure B.132.2 Case 8K: Combined Plot
Figure B.132.3 Case 8K: Force vs. Velocity

Figure B.132.4 Case 8K: Force vs. Absolute Displacement
Case 9K: New 1/2 in. Tech 12 (85 lb from 94 in.)

Figure B.133.1 Case 9K: Force and Acceleration vs. Time

Case 9K: New 1/2 in. Tech 12 (85 lb from 94 in.)

Figure B.133.2 Case 9K: Combined Plot

355
Figure B.133.3 Case 9K: Force vs. Velocity

Figure B.133.4 Case 9K: Force vs. Absolute Displacement
Figure B.134.1 Case 10K: Force and Acceleration vs. Time

Figure B.134.2 Case 10K: Combined Plot
Figure B.134.3 Case 10K: Force vs. Velocity

Figure B.134.4 Case 10K: Force vs. Absolute Displacement
Figure B.135.1 Case 11K: Force and Acceleration vs. Time

Figure B.135.2 Case 11K: Combined Plot
**Figure B.135.3 Case 11K: Force vs. Velocity**

**Figure B.135.4 Case 11K: Force vs. Absolute Displacement**
Case 12K: New 1/2 in. Tech 12 (105 lb from 58 in.)

Figure B.136.1 Case 12K: Force and Acceleration vs. Time

Figure B.136.2 Case 12K: Combined Plot
Figure B.136.3 Case 12K: Force vs. Velocity

Figure B.136.4 Case 12K: Force vs. Absolute Displacement
Case 13K: New 1/2 in. Tech 12 (45 lb from 54 in.)

Figure B.137.1 Case 13K: Force and Acceleration vs. Time

Case 13K: New 1/2 in. Tech 12 (45 lb from 54 in.)

Figure B.137.2 Case 13K: Combined Plot
Figure B.137.3 Case 13K: Force vs. Velocity

Figure B.137.4 Case 13K: Force vs. Absolute Displacement
Case 14K: New 1/2 in. Tech 12 (65 lb from 54 in.)

Figure B.138.1 Case 14K: Force and Acceleration vs. Time

Figure B.138.2 Case 14K: Combined Plot
Figure B.138.3 Case 14K: Force vs. Velocity

Figure B.138.4 Case 14K: Force vs. Absolute Displacement
Figure B.139.1 Case 15K: Force and Acceleration vs. Time

Figure B.139.2 Case 15K: Combined Plot
Figure B.139.3 Case 15K: Force vs. Velocity

Figure B.139.4 Case 15K: Force vs. Absolute Displacement
Case 16K: New 1/2 in. Tech 12 (105 lb from 54 in.)

Figure B.140.1 Case 16K: Force and Acceleration vs. Time

Figure B.140.2 Case 16K: Combined Plot
Figure B.140.3 Case 16K: Force vs. Velocity

Figure B.140.4 Case 16K: Force vs. Absolute Displacement
Figure B.141.1 Case 17K: Force and Acceleration vs. Time

Figure B.141.2 Case 17K: Combined Plot
Figure B.141.3 Case 17K: Force vs. Velocity

Figure B.141.4 Case 17K: Force vs. Absolute Displacement
Case 18K: New 1/2 in. Tech 12 (125 lb from 54 in.)

![Force and Acceleration vs. Time](image1)

**Figure B.142.1** Case 18K: Force and Acceleration vs. Time

Case 18K: New 1/2 in. Tech 12 (125 lb from 54 in.)

![Combined Plot](image2)

**Figure B.142.2** Case 18K: Combined Plot

373
Case 18K: New 1/2 in. Tech 12 (125 lb from 54 in.)

Figure B.142.3 Case 18K: Force vs. Velocity

Figure B.142.4 Case 18K: Force vs. Absolute Displacement
Case 19K: New 1/2 in. Tech 12 (105 lb from 54 in.)

Figure B.143.1 Case 19K: Force and Acceleration vs. Time

Case 19K: New 1/2 in. Tech 12 (105 lb from 54 in.)

Figure B.143.2 Case 19K: Combined Plot
Figure B.143.3 Case 19K: Force vs. Velocity

Figure B.143.4 Case 19K: Force vs. Absolute Displacement
Case 20K: New 1/2 in. Tech 12 (85 lb from 54 in.)

Figure B.144.1 Case 20K: Force and Acceleration vs. Time

Figure B.144.2 Case 20K: Combined Plot
Case 20K: New 1/2 in. Tech 12 (85 lb from 54 in.)

Figure B.144.3 Case 20K: Force vs. Velocity

Case 20K: New 1/2 in. Tech 12 (85 lb from 54 in.)

Figure B.144.4 Case 20K: Force vs. Absolute Displacement
Case 21K: New 1/2 in. Tech 12 (65 lb from 54 in.)

Figure B.145.1 Case 21K: Force and Acceleration vs. Time

Figure B.145.2 Case 21K: Combined Plot
Case 21K: New 1/2 in. Tech 12 (65 lb from 54 in.)

![Figure B.145.3 Case 21K: Force vs. Velocity](image1)

Figure B.145.3 Case 21K: Force vs. Velocity

Case 21K: New 1/2 in. Tech 12 (65 lb from 54 in.)

![Figure B.145.4 Case 21K: Force vs. Absolute Displacement](image2)

Figure B.145.4 Case 21K: Force vs. Absolute Displacement

380
Case 22K: New 1/2 in. Tech 12 (45 lb from 54 in.)

Figure B.146.1 Case 22K: Force and Acceleration vs. Time

Figure B.146.2 Case 22K: Combined Plot
Case 22K: New 1/2 in. Tech 12 (45 lb from 54 in.)

Figure B.146.3 Case 22K: Force vs. Velocity

Figure B.146.4 Case 22K: Force vs. Absolute Displacement
Case 1L: Precycled 1/2 in. Tech 12 (65 lb from 54 in.)

**Figure B.147.1 Case 1L: Force and Acceleration vs. Time**

Case 1L: Precycled 1/2 in. Tech 12 (65 lb from 54 in.)

**Figure B.147.2 Case 1L: Combined Plot**
Case 1L: Precycled 1/2 in. Tech 12 (65 lb from 54 in.)

Figure B.147.3 Case 1L: Force vs. Velocity

Case 1L: Precycled 1/2 in. Tech 12 (65 lb from 54 in.)

Figure B.147.4 Case 1L: Force vs. Absolute Displacement
Case 4L: Precycled 1/2 in. Tech 12 (65 lb from 90 in.)

![Graph showing force and acceleration vs. time for Case 4L.](image)

Figure B.148.1 Case 2L: Force and Acceleration vs. Time

Case 2L: Precycled 1/2 in. Tech 12 (65 lb from 66 in.)

![Graph showing velocity and displacement vs. time for Case 2L.](image)

Figure B.148.2 Case 2L: Combined Plot

385
Figure B.148.3 Case 2L: Force vs. Velocity

Figure B.148.4 Case 2L: Force vs. Absolute Displacement
Case 3L: Precycled 1/2 in. Tech 12 (65 lb from 78 in.)

Figure B.149.1 Case 3L: Force and Acceleration vs. Time

Figure B.149.2 Case 3L: Combined Plot
Case 3L: Precycled 1/2 in. Tech 12 (65 lb from 78 in.)

![Graph showing force vs. velocity](image1)

Figure B.149.3 Case 3L: Force vs. Velocity

Case 3L: Precycled 1/2 in. Tech 12 (65 lb from 78 in.)

![Graph showing force vs. absolute displacement](image2)

Figure B.149.4 Case 3L: Force vs. Absolute Displacement
Case 4L: Precycled 1/2 in. Tech 12 (65 lb from 90 in.)

Figure B.150.1 Case 4L: Force and Acceleration vs. Time

Case 4L: Precycled 1/2 in. Tech 12 (65 lb from 90 in.)

Figure B.150.2 Case 4L: Combined Plot
Figure B.150.3 Case 4L: Force vs. Velocity

Figure B.150.4 Case 4L: Force vs. Absolute Displacement
Figure B.151.1 Case 5L: Force and Acceleration vs. Time

Figure B.151.2 Case 5L: Combined Plot
Case 5L: Precycled 1/2 in. Tech 12 (65 lb from 96 in.)

![Graph showing force vs. velocity](image1)

Figure B.151.3 Case 5L: Force vs. Velocity

Case 5L: Precycled 1/2 in. Tech 12 (65 lb from 96 in.)

![Graph showing force vs. absolute displacement](image2)

Figure B.151.4 Case 5L: Force vs. Absolute Displacement
Case 6L: Precycled 1/2 in. Tech 12 (85 lb from 58 in.)

Figure B.152.1 Case 6L: Force and Acceleration vs. Time

Figure B.152.2 Case 6L: Combined Plot
Case 6L: Precycled 1/2 in. Tech 12 (85 lb from 58 in.)

Figure B.152.3 Case 6L: Force vs. Velocity

Figure B.152.4 Case 6L: Force vs. Absolute Displacement
Case 7L: Precycled 1/2 in. Tech 12 (85 lb from 70 in.)

![Force and Acceleration vs. Time](image1)

**Figure B.153.1 Case 7L: Force and Acceleration vs. Time**

![Combined Plot](image2)

**Figure B.153.2 Case 7L: Combined Plot**
Case 7L: Precycled 1/2 in. Tech 12 (85 lb from 70 in.)

![Force vs. Velocity](image1)

Figure B.153.3 Case 7L: Force vs. Velocity

Case 7L: Precycled 1/2 in. Tech 12 (85 lb from 70 in.)

![Force vs. Absolute Displacement](image2)

Figure B.153.4 Case 7L: Force vs. Absolute Displacement

396
Case 8L: Precycled 1/2 in. Tech 12 (85 lb from 82 in.)

![Figure B.154.1 Case 8L: Force and Acceleration vs. Time](image1)

![Figure B.154.2 Case 8L: Combined Plot](image2)
Figure B.154.3 Case 8L: Force vs. Velocity

Figure B.154.4 Case 8L: Force vs. Absolute Displacement
Figure B.155.1 Case 9L: Force and Acceleration vs. Time

Figure B.155.2 Case 9L: Combined Plot
Figure B.156.1 Case 10L: Force and Acceleration vs. Time

Figure B.156.2 Case 10L: Combined Plot
Figure B.156.3 Case 10L: Force vs. Velocity

Figure B.156.4 Case 10L: Force vs. Absolute Displacement
Case 11L: Precycled 1/2 in. Tech 12 (105 lb from 58 in.)

Figure B.157.1 Case 11L: Force and Acceleration vs. Time

Figure B.157.2 Case 11L: Combined Plot
Case 11L: Precycled 1/2 in. Tech 12 (105 lb from 58 in.)

Figure B.157.3 Case 11L: Force vs. Velocity

Case 11L: Precycled 1/2 in. Tech 12 (105 lb from 58 in.)

Figure B.157.4 Case 11L: Force vs. Absolute Displacement
Figure B.158.1 Case 12L: Force and Acceleration vs. Time

Figure B.158.2 Case 12L: Combined Plot
Figure B.158.3 Case 12L: Force vs. Velocity

Figure B.158.4 Case 12L: Force vs. Absolute Displacement
Case 1M: New 3/8 in. Tech 12 (65 lb from 56 in.)

Figure B.159.1 Case 1M: Force and Acceleration vs. Time

Figure B.159.2 Case 1M: Combined Plot
Case 1M: New 3/8 in. Tech 12 (65 lb from 56 in.)

Figure B.159.3 Case 1M: Force vs. Velocity

Figure B.159.4 Case 1M: Force vs. Absolute Displacement
Case 2M: New 3/8 in. Tech 12 (65 lb from 68 in.)

Figure B.160.1 Case 2M: Force and Acceleration vs. Time

Figure B.160.2 Case 2M: Combined Plot
Figure B.160.3 Case 2M: Force vs. Velocity

Figure B.160.4 Case 2M: Force vs. Absolute Displacement
Figure B.161.1 Case 3M: Force and Acceleration vs. Time

Figure B.161.2 Case 3M: Combined Plot
Case 3M: New 3/8 in. Tech 12 (65 lb from 80 in.)

Figure B.161.3 Case 3M: Force vs. Velocity

Figure B.161.4 Case 3M: Force vs. Absolute Displacement
Figure B.162.1 Case 4M: Force and Acceleration vs. Time

Figure B.162.2 Case 4M: Combined Plot
Figure B.162.3 Case 4M: Force vs. Velocity

Figure B.162.4 Case 4M: Force vs. Absolute Displacement
Figure B.163.1 Case 5M: Force and Acceleration vs. Time

Figure B.163.2 Case 5M: Combined Plot
Figure B.163.3 Case 5M: Force vs. Velocity

Figure B.163.4 Case 5M: Force vs. Absolute Displacement
Figure B.164.1 Case 6M: Force and Acceleration vs. Time

Figure B.164.2 Case 6M: Combined Plot
Case 6M: New 3/8 in. Tech 12 (85 lb from 71 in.)

Figure B.164.3 Case 6M: Force vs. Velocity

Case 6M: New 3/8 in. Tech 12 (85 lb from 71 in.)

Figure B.164.4 Case 6M: Force vs. Absolute Displacement

418
Figure B.165.1 Case 7M: Force and Acceleration vs. Time

Figure B.165.2 Case 7M: Combined Plot
Figure B.165.3 Case 7M: Force vs. Velocity

Figure B.165.4 Case 7M: Force vs. Absolute Displacement
Case 8M: New 3/8 in. Tech 12 (105 lb from 59 in.)

Figure B.166.1 Case 8M: Force and Acceleration vs. Time

Figure B.166.2 Case 8M: Combined Plot
Figure B.166.3 Case 8M: Force vs. Velocity

Figure B.166.4 Case 8M: Force vs. Absolute Displacement
Case 9M: New 3/8 in. Tech 12 (105 lb from 59 in.)

Figure B.167.1 Case 9M: Force and Acceleration vs. Time

Figure B.167.2 Case 9M: Combined Plot
Case 9M: New 3/8 in. Tech 12 (105 lb from 59 in.)

Figure B.167.3 Case 9M: Force vs. Velocity

Figure B.167.4 Case 9M: Force vs. Absolute Displacement
Case 1N: Precycled 3/8 in. Tech 12 (65 lb from 56 in.)

Figure B.168.1 Case 1N: Force and Acceleration vs. Time

Figure B.168.2 Case 1N: Combined Plot
Case 1N: Precycled 3/8 in. Tech 12 (65 lb from 56 in.)

![Graph showing force vs. velocity](image1)

Figure B.168.3 Case 1N: Force vs. Velocity

Case 1N: Precycled 3/8 in. Tech 12 (65 lb from 56 in.)

![Graph showing force vs. absolute displacement](image2)

Figure B.168.4 Case 1N: Force vs. Absolute Displacement
Case 2N: Precycled 3/8 in. Tech 12 (65 lb from 68 in.)

Figure B.169.1 Case 2N: Force and Acceleration vs. Time

Figure B.169.2 Case 2N: Combined Plot
Figure B.169.3 Case 2N: Force vs. Velocity

Figure B.169.4 Case 2N: Force vs. Absolute Displacement
Case 3N: Precycled 3/8 in. Tech 12 (65 lb from 80 in.)

Figure B.170.1 Case 3N: Force and Acceleration vs. Time

Figure B.170.2 Case 3N: Combined Plot
Case 3N: Precycled 3/8 in. Tech 12 (65 lb from 80 in.)

Figure B.170.3 Case 3N: Force vs. Velocity

Case 3N: Precycled 3/8 in. Tech 12 (65 lb from 80 in.)

Figure B.170.4 Case 3N: Force vs. Absolute Displacement
Case 4N: Precycled 3/8 in. Tech 12 (65 lb from 92 in.)

![Graph of Force and Acceleration vs. Time]

Figure B.171.1 Case 4N: Force and Acceleration vs. Time

Case 4N: Precycled 3/8 in. Tech 12 (65 lb from 92 in.)

![Combined Graph of Force, Acceleration, Velocity, and Displacement]

Figure B.171.2 Case 4N: Combined Plot
Case 4N: Precycled 3/8 in. Tech 12 (65 lb from 92 in.)

Figure B.171.3 Case 4N: Force vs. Velocity

Figure B.171.4 Case 4N: Force vs. Absolute Displacement
Case 5N: Precycled 3/8 in. Tech 12 (85 lb from 59 in.)

Figure B.172.1 Case 5N: Force and Acceleration vs. Time

Figure B.172.2 Case 5N: Combined Plot
Figure B.172.3 Case 5N: Force vs. Velocity

Figure B.172.4 Case 5N: Force vs. Absolute Displacement
Case 6N: Precycled 3/8 in. Tech 12 (85 lb from 71 in.)

Figure B.173.1 Case 6N: Force and Acceleration vs. Time

Figure B.173.2 Case 6N: Combined Plot
Figure B.173.3 Case 6N: Force vs. Velocity

Figure B.173.4 Case 6N: Force vs. Absolute Displacement
Case 7N: Precycled 3/8 in. Tech 12 (85 lb from 83 in.)

Figure B.174.1 Case 7N: Force and Acceleration vs. Time

Case 7N: Precycled 3/8 in. Tech 12 (85 lb from 83 in.)

Figure B.174.2 Case 7N: Combined Plot
Figure B.174.3 Case 7N: Force vs. Velocity

Figure B.174.4 Case 7N: Force vs. Absolute Displacement
Figure B.175.1 Case 8N: Force and Acceleration vs. Time

Figure B.175.2 Case 8N: Combined Plot
Figure B.175.3 Case 8N: Force vs. Velocity

Figure B.175.4 Case 8N: Force vs. Absolute Displacement
Case 9N: Precycled 3/8 in. Tech 12 (105 lb from 59 in.)

Figure B.176.1 Case 9N: Force and Acceleration vs. Time

Case 9N: Precycled 3/8 in. Tech 12 (105 lb from 59 in.)

Figure B.176.2 Case 9N: Combined Plot
Figure B.176.3 Case 9N: Force vs. Velocity

Figure B.176.4 Case 9N: Force vs. Absolute Displacement
Figure B.177.1 Case 10N: Force and Acceleration vs. Time

Figure B.177.2 Case 10N: Combined Plot
Figure B.177.3 Case 10N: Force vs. Velocity

Figure B.177.4 Case 10N: Force vs. Absolute Displacement
### 1/2-inch Amsteel Blue (New)

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Table B.5.1 Test Sequence for 1/2 in. Amsteel Blue (New)

### 1/2-inch Amsteel Blue (Precycled)

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Table B.5.2 Test Sequence for 1/2 in. Amsteel Blue (Precycled)
### 3/8-inch Amsteel Blue (Precycled)

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Table B.5.3 Test Sequence for 3/8 in. Amsteel Blue (Precycled)

### 3/8-inch Amsteel Blue (New)

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Table B.5.4 Test Sequence for 3/8 in. Amsteel Blue (New)
Case 1O: New 1/2 in. Amsteel Blue (65 lb from 90 in.)

Figure B.178.1 Case 1O: Force and Acceleration vs. Time

Figure B.178.2 Case 1O: Combined Plot
Figure B.178.3 Case 10: Force vs. Velocity

Figure B.178.4 Case 10: Force vs. Absolute Displacement
Figure B.179.1 Case 2O: Force and Acceleration vs. Time

Figure B.179.2 Case 2O: Combined Plot

449
Figure B.179.3 Case 2O: Force vs. Velocity

Figure B.179.4 Case 2O: Force vs. Absolute Displacement
Case 3O: New 1/2 in. Amsteel Blue (65 lb from 78 in.)

Figure B.180.1 Case 3O: Force and Acceleration vs. Time

Figure B.180.2 Case 3O: Combined Plot
Case 3O: New 1/2 in. Amsteel Blue (65 lb from 78 in.)

Figure B.180.3 Case 3O: Force vs. Velocity

Figure B.180.4 Case 3O: Force vs. Absolute Displacement
Case 4O: New 1/2 in. Amsteel Blue (65 lb from 72 in.)

Figure B.181.1 Case 4O: Force and Acceleration vs. Time

Figure B.181.2 Case 4O: Combined Plot
Figure B.181.3 Case 4O: Force vs. Velocity

Figure B.181.4 Case 4O: Force vs. Absolute Displacement
Case 5O: New 1/2 in. Amsteel Blue (65 lb from 66 in.)

Figure B.182.1 Case 5O: Force and Acceleration vs. Time

Case 5O: New 1/2 in. Amsteel Blue (65 lb from 66 in.)

Figure B.182.2 Case 5O: Combined Plot
Case 5O: New 1/2 in. Amsteel Blue (65 lb from 66 in.)

Figure B.182.3 Case 5O: Force vs. Velocity

Figure B.182.4 Case 5O: Force vs. Absolute Displacement
Figure B.183.1 Case 6O: Force and Acceleration vs. Time

Figure B.183.2 Case 6O: Combined Plot
Figure B.183.3 Case 6O: Force vs. Velocity

Figure B.183.4 Case 6O: Force vs. Absolute Displacement
Case 7O: New 1/2 in. Amsteel Blue (85 lb from 70 in.)

Figure B.184.1 Case 7O: Force and Acceleration vs. Time

Figure B.184.2 Case 7O: Combined Plot
Figure B.184.3 Case 7O: Force vs. Velocity

Figure B.184.4 Case 7O: Force vs. Absolute Displacement
Case 8O: New 1/2 in. Amsteel Blue (85 lb from 82 in.)

Figure B.185.1 Case 8O: Force and Acceleration vs. Time

Figure B.185.2 Case 8O: Combined Plot
Figure B.185.3 Case 8O: Force vs. Velocity

Figure B.185.4 Case 8O: Force vs. Absolute Displacement
Case 9O: New 1/2 in. Amsteel Blue (85 lb from 88 in.)

Figure B.186.1 Case 9O: Force and Acceleration vs. Time

Figure B.186.2 Case 9O: Combined Plot

463
Figure B.186.3 Case 9O: Force vs. Velocity

Figure B.186.4 Case 9O: Force vs. Absolute Displacement
Case 10O: New 1/2 in. Amsteel Blue (125 lb from 54 in.)

Figure B.187.1 Case 10O: Force and Acceleration vs. Time

Case 10O: New 1/2 in. Amsteel Blue (125 lb from 54 in.)

Figure B.187.2 Case 10O: Combined Plot
Figure B.187.3 Case 10O: Force vs. Velocity

Figure B.187.4 Case 10O: Force vs. Absolute Displacement
Case 11O: New 1/2 in. Amsteel Blue (125 lb from 54 in.)

Figure B.188.1 Case 11O: Force and Acceleration vs. Time

Case 11O: New 1/2 in. Amsteel Blue (125 lb from 54 in.)

Figure B.188.2 Case 11O: Combined Plot
Case 11O: New 1/2 in. Amsteel Blue (125 lb from 54 in.)

Figure B.188.3 Case 11O: Force vs. Velocity

Case 11O: New 1/2 in. Amsteel Blue (125 lb from 54 in.)

Figure B.188.4 Case 11O: Force vs. Absolute Displacement

468
Figure B.189.1 Case 12O: Force and Acceleration vs. Time

Figure B.189.2 Case 12O: Combined Plot
Figure B.189.3 Case 12O: Force vs. Velocity

Figure B.189.4 Case 12O: Force vs. Absolute Displacement
Figure B.190.1 Case 13O: Force and Acceleration vs. Time

Figure B.190.2 Case 13O: Combined Plot
Case 13O: New 1/2 in. Amsteel Blue (105 lb from 54 in.)

Figure B.190.3 Case 13O: Force vs. Velocity

Case 13O: New 1/2 in. Amsteel Blue (105 lb from 54 in.)

Figure B.190.4 Case 13O: Force vs. Absolute Displacement
Case 14O: New 1/2 in. Amsteel Blue (85 lb from 54 in.)

Figure B.191.1 Case 14O: Force and Acceleration vs. Time

Figure B.191.2 Case 14O: Combined Plot
Figure B.191.3 Case 14O: Force vs. Velocity

Figure B.191.4 Case 14O: Force vs. Absolute Displacement
Figure B.192.1 Case 15O: Force and Acceleration vs. Time

Figure B.192.2 Case 15O: Combined Plot
Figure B.192.3 Case 15O: Force vs. Velocity

Figure B.192.4 Case 15O: Force vs. Absolute Displacement
Figure B.193.1 Case 16O: Force and Acceleration vs. Time

Figure B.193.2 Case 16O: Combined Plot
Figure B.193.3 Case 16O: Force vs. Velocity

Figure B.193.4 Case 16O: Force vs. Absolute Displacement
Figure B.194.1 Case 1P: Force and Acceleration vs. Time

Figure B.194.2 Case 1P: Combined Plot
Case 1P: Precycled 1/2 in. Amsteel Blue (65 lb from 97 in.)

Figure B.194.3 Case 1P: Force vs. Velocity

Figure B.194.4 Case 1P: Force vs. Absolute Displacement
Figure B.195.1 Case 2P: Force and Acceleration vs. Time

Figure B.195.2 Case 2P: Combined Plot
Case 2P: Precycled 1/2 Amsteel Blue (65 lb from 91 in.)

Figure B.195.3 Case 2P: Force vs. Velocity

Figure B.195.4 Case 2P: Force vs. Absolute Displacement

482
Figure B.196.1 Case 3P: Force and Acceleration vs. Time

Figure B.196.2 Case 3P: Combined Plot
Figure B.196.3 Case 3P: Force vs. Velocity

Figure B.196.4 Case 3P: Force vs. Absolute Displacement
Case 4P: Precycled 1/2 in. Amsteel Blue (65 lb from 79 in.)

Figure B.197.1 Case 4P: Force and Acceleration vs. Time

Figure B.197.2 Case 4P: Combined Plot
Case 4P: Precycled 1/2 in. Amsteel Blue (65 lb from 79 in.)

Figure B.197.3 Case 4P: Force vs. Velocity

Figure B.197.4 Case 4P: Force vs. Absolute Displacement

486
Figure B.198.1 Case 5P: Force and Acceleration vs. Time

Figure B.198.2 Case 5P: Combined Plot
Figure B.198.3 Case 5P: Force vs. Velocity

Figure B.198.4 Case 5P: Force vs. Absolute Displacement
Case 6P: Precycled 1/2 in. Amsteel Blue (65 lb from 67 in.)

Figure B.199.1 Case 6P: Force and Acceleration vs. Time

Figure B.199.2 Case 6P: Combined Plot
Case 6P: Precycled 1/2 in. Amsteel Blue (65 lb from 67 in.)

Figure B.199.3 Case 6P: Force vs. Velocity

Figure B.199.4 Case 6P: Force vs. Absolute Displacement
Case 7P: Precycled 1/2 in. Amsteel Blue (85 lb from 60 in.)

Figure B.200.1 Case 7P: Force and Acceleration vs. Time

Case 7P: Precycled 1/2 in. Amsteel Blue (85 lb from 60 in.)

Figure B.200.2 Case 7P: Combined Plot
Case 7P: Precycled 1/2 in. Amsteel Blue (85 lb from 60 in.)

Figure B.200.3 Case 7P: Force vs. Velocity

Figure B.200.4 Case 7P: Force vs. Absolute Displacement
Case 8P: Precycled 1/2 in. Amsteel Blue (85 lb from 72 in.)

Figure B.201.1 Case 8P: Force and Acceleration vs. Time

Figure B.201.2 Case 8P: Combined Plot
Figure B.201.3 Case 8P: Force vs. Velocity

Figure B.201.4 Case 8P: Force vs. Absolute Displacement
Figure B.202.1 Case 9P: Force and Acceleration vs. Time

Figure B.202.2 Case 9P: Combined Plot
Case 9P: Precycled 1/2 in. Amsteel Blue (85 lb from 84 in.)

Figure B.202.3 Case 9P: Force vs. Velocity

Figure B.202.4 Case 9P: Force vs. Absolute Displacement
Figure B.203.1 Case 10P: Force and Acceleration vs. Time

Figure B.203.2 Case 10P: Combined Plot
Figure B.203.3 Case 10P: Force vs. Velocity

Figure B.203.4 Case 10P: Force vs. Absolute Displacement
Case 1Q: Precycled 3/8 in. Amsteel Blue (25 lb from 56 in.)

Figure B.204.1 Case 1Q: Force and Acceleration vs. Time

Case 1Q: Precycled 3/8 in. Amsteel Blue (25 lb from 56 in.)

Figure B.204.2 Case 1Q: Combined Plot
Case 1Q: Precycled 3/8 in. Amsteel Blue (25 lb from 56 in.)

Figure B.204.3 Case 1Q: Force vs. Velocity

Figure B.204.4 Case 1Q: Force vs. Absolute Displacement
Case 2Q: Precycled 3/8 in. Amsteel Blue (65 lb from 56 in.)

Figure B.205.1 Case 2Q: Force and Acceleration vs. Time

Case 2Q: Precycled 3/8 in. Amsteel Blue (65 lb from 56 in.)

Figure B.205.2 Case 2Q: Combined Plot
Figure B.205.3 Case 2Q: Force vs. Velocity

Figure B.205.4 Case 2Q: Force vs. Absolute Displacement
Figure B.206.1 Case 3Q: Force and Acceleration vs. Time

Figure B.206.2 Case 3Q: Combined Plot
Figure B.206.3 Case 3Q: Force vs. Velocity

Figure B.206.4 Case 3Q: Force vs. Absolute Displacement
Figure B.207.1 Case 4Q: Force and Acceleration vs. Time

Figure B.207.2 Case 4Q: Combined Plot
Figure B.207.3 Case 4Q: Force vs. Velocity

Figure B.207.4 Case 4Q: Force vs. Absolute Displacement
Case 5Q: Precycled 3/8 in. Amsteel Blue (125 lb from 56 in.)

Figure B.208.1 Case 5Q: Force and Acceleration vs. Time

Case 5Q: Precycled 3/8 in. Amsteel Blue (125 lb from 56 in.)

Figure B.208.2 Case 5Q: Combined Plot
Figure B.208.3 Case 5Q: Force vs. Velocity

Figure B.208.4 Case 5Q: Force vs. Absolute Displacement
Figure B.209.1 Case 6Q: Force and Acceleration vs. Time

Figure B.209.2 Case 6Q: Combined Plot
Case 6Q: Precycled 3/8 in. Amsteel Blue (125 lb from 56 in.)

Figure B.209.3 Case 6Q: Force vs. Velocity

Figure B.209.4 Case 6Q: Force vs. Absolute Displacement
Case 7Q: Precycled 3/8 in. Amsteel Blue (125 lb from 56 in.)

Figure B.210.1 Case 7Q: Force and Acceleration vs. Time

Case 7Q: Precycled 3/8 in. Amsteel Blue (125 lb from 56 in.)

Figure B.210.2 Case 7Q: Combined Plot
Figure B.210.3 Case 7Q: Force vs. Velocity

Figure B.210.4 Case 7Q: Force vs. Absolute Displacement
Figure B.211.1 Case 8Q: Force and Acceleration vs. Time

Figure B.211.2 Case 8Q: Combined Plot
Case 8: Precycled 3/8 in. Amsteel Blue (125 lb from 56 in.)

Figure B.211.3 Case 8Q: Force vs. Velocity

Figure B.211.4 Case 8Q: Force vs. Absolute Displacement
Case 1R: New 3/8 in. Amsteel Blue (45 lb from 55 in.)

Figure B.212.1 Case 1R: Force and Acceleration vs. Time

Case 1R: New 3/8 in. Amsteel Blue (45 lb from 55 in.)

Figure B.212.2 Case 1R: Combined Plot
Figure B.212.3 Case 1R: Force vs. Velocity

Figure B.212.4 Case 1R: Force vs. Absolute Displacement
Figure B.213.1 Case 2R: Force and Acceleration vs. Time

Figure B.213.2 Case 2R: Combined Plot
Case 2R: New 3/8 in. Amsteel Blue (65 lb from 55 in.)

Figure B.213.3 Case 2R: Force vs. Velocity

Figure B.213.4 Case 2R: Force vs. Absolute Displacement
Case 3R: New 3/8 in. Amsteel Blue (85 lb from 55 in.)

Figure B.214.1 Case 3R: Force and Acceleration vs. Time

Figure B.214.2 Case 3R: Combined Plot
Case 3R: New 3/8 in. Amsteel Blue (85 lb from 55 in.)

Figure B.214.3 Case 3R: Force vs. Velocity

Figure B.214.4 Case 3R: Force vs. Absolute Displacement
Case 4R: New 3/8 in. Amsteel Blue (105 lb from 55 in.)

Figure B.215.1 Case 4R: Force and Acceleration vs. Time

Figure B.215.2 Case 4R: Combined Plot
Figure B.215.3 Case 4R: Force vs. Velocity

Figure B.215.4 Case 4R: Force vs. Absolute Displacement
Case 5R: New 3/8 in. Amsteel Blue (125 lb from 55 in.)

- Figure B.216.1 Case 5R: Force and Acceleration vs. Time

- Figure B.216.2 Case 5R: Combined Plot
Figure B.216.3 Case 5R: Force vs. Velocity

Figure B.216.4 Case 5R: Force vs. Absolute Displacement
### 3/4-inch RP Polyester (Precycled)

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Table B.6.1 Test Sequence for 3/4 in. RP Polyester (Precycled)

### 3/4-inch RP Polyester (New)

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Table B.6.2 Test Sequence for 3/4 in. RP Polyester (New)
Figure B.217.1 Case 1S: Force and Acceleration vs. Time

Figure B.217.2 Case 1S: Combined Plot
Case 1S: Precycled 3/8 in. RP Polyester (45 lb from 54 in.)

Figure B.217.3 Case 1S: Force vs. Velocity

Case 1S: Precycled 3/8 in. RP Polyester (45 lb from 54 in.)

Figure B.217.4 Case 1S: Force vs. Absolute Displacement
Figure B.218.1 Case 2S: Force and Acceleration vs. Time

Figure B.218.2 Case 2S: Combined Plot
Case 2S: Precycled 3/8 in. RP Polyester (45 lb from 54 in.)

Figure B.218.3 Case 2S: Force vs. Velocity

Figure B.218.4 Case 2S: Force vs. Absolute Displacement
Case 3S: Precycled 3/8 in. RP Polyester (45 lb from 54 in.)

Figure B.219.1 Case 3S: Force and Acceleration vs. Time

Case 3S: Precycled 3/8 in. RP Polyester (45 lb from 54 in.)

Figure B.219.2 Case 3S: Combined Plot
Case 3S: Precycled 3/8 in. RP Polyester (45 lb from 54 in.)

Figure B.219.3 Case 3S: Force vs. Velocity

Figure B.219.4 Case 3S: Force vs. Absolute Displacement
Case 4S: Precycled 3/4 in. RP Polyester (45 lb from 54 in.)

Figure B.220.1 Case 4S: Force and Acceleration vs. Time

Figure B.220.2 Case 4S: Combined Plot
Case 4S: Precycled 3/4 in. RP Polyester (45 lb from 54 in.)

Figure B.220.3 Case 4S: Force vs. Velocity

Figure B.220.4 Case 4S: Force vs. Absolute Displacement
Figure B.221.1 Case 5S: Force and Acceleration vs. Time

Figure B.221.2 Case 5S: Combined Plot
**Case 5S: Precycled 3/4 in. RP Polyester (45 lb from 60 in.)**

![Graph](image1.png)

Figure B.221.3 Case 5S: Force vs. Velocity

**Case 5S: Precycled 3/4 in. RP Polyester (45 lb from 60 in.)**

![Graph](image2.png)

Figure B.221.4 Case 5S: Force vs. Absolute Displacement

535
Figure B.222.1 Case 1T: Force and Acceleration vs. Time

Figure B.222.2 Case 1T: Combined Plot
Case 1T: New 3/4 in. RP Polyester (45 lb from 53 in.)

Figure B.222.3 Case 1T: Force vs. Velocity

Case 1T: New 3/4 in. RP Polyester (45 lb from 53 in.)

Figure B.222.4 Case 1T: Force vs. Absolute Displacement

537
Figure B.223.1 Case 2T: Force and Acceleration vs. Time

Figure B.223.2 Case 2T: Combined Plot
Case 2T: New 3/4 in. RP Polyester (45 lb from 59 in.)

Figure B.223.3 Case 2T: Force vs. Velocity

Case 2T: New 3/4 in. RP Polyester (45 lb from 59 in.)

Figure B.223.4 Case 2T: Force vs. Absolute Displacement
Case 3T: New 3/4 in. RP Polyester (45 lb from 65 in.)

Figure B.224.1 Case 3T: Force and Acceleration vs. Time

Figure B.224.2 Case 3T: Combined Plot
Figure B.224.3 Case 3T: Force vs. Velocity

Figure B.224.4 Case 3T: Force vs. Absolute Displacement
Figure B.225.1 Case 4T: Force and Acceleration vs. Time

Figure B.225.2 Case 4T: Combined Plot
Figure B.225.3 Case 4T: Force vs. Velocity

Figure B.225.4 Case 4T: Force vs. Absolute Displacement
Figure B.226.1 Case 5T: Force and Acceleration vs. Time

Figure B.226.2 Case 5T: Combined Plot
Case 5T: New 3/4 in. RP Polyester (45 lb from 77 in.)

Figure B.226.3 Case 5T: Force vs. Velocity

Figure B.226.4 Case 5T: Force vs. Absolute Displacement
### 3/8-inch Dura Plex (7 foot)

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Table B.7.1 Test Sequence for 3/8 in. Dura Plex (7 foot-Precycled)

### 3/8-inch XLS Yacht Braid (7 foot)

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Table B.8.1 Test Sequence for 3/8 in. XLS Yacht Braid (7 foot-Precycled)
Figure B.227.1 Case 1U: Force and Acceleration vs. Time

Figure B.227.2 Case 1U: Combined Plot
Case 1U: Precycled 7 ft. 3/8 in. Dura Plex (65 lb from 78 in.)

Figure B.227.3 Case 1U: Force vs. Velocity

Case 1U: Precycled 7 ft. 3/8 in. Dura Plex (65 lb from 78 in.)

Figure B.227.4 Case 1U: Force vs. Absolute Displacement

548
Case 2U: Precycled 7 ft. 3/8 in. Dura Plex (65 lb from 72 in.)

Figure B.228.1 Case 2U: Force and Acceleration vs. Time

Figure B.228.2 Case 2U: Combined Plot

549
Case 2U: Precycled 7 ft. 3/8 in. Dura Plex (65 lb from 72 in.)

Figure B.228.3 Case 2U: Force vs. Velocity

Case 2U: Precycled 7 ft. 3/8 in. Dura Plex (65 lb from 72 in.)

Figure B.228.4 Case 2U: Force vs. Absolute Displacement
Figure B.229.1 Case 3U: Force and Acceleration vs. Time

Figure B.229.2 Case 3U: Combined Plot
Case 3U: Precycled 7 ft. 3/8 in. Dura Plex (65 lb from 66 in.)

Figure B.229.3 Case 3U: Force vs. Velocity

Case 3U: Precycled 7 ft. 3/8 in. Dura Plex (65 lb from 66 in.)

Figure B.229.4 Case 3U: Force vs. Absolute Displacement
Case 4U: Precycled 7 ft. 3/8 in. Dura Plex (65 lb from 60 in.)

Figure B.230.1 Case 4U: Force and Acceleration vs. Time

Figure B.230.2 Case 4U: Combined Plot
Figure B.230.3 Case 4U: Force vs. Velocity

Figure B.230.4 Case 4U: Force vs. Absolute Displacement
Figure B.231.1 Case 5U: Force and Acceleration vs. Time

Figure B.231.2 Case 5U: Combined Plot
Case 5U: Precycled 7 ft. 3/8 in. Dura Plex (85 lb from 54 in.)

Figure B.231.3 Case 5U: Force vs. Velocity

Case 5U: Precycled 7 ft. 3/8 in. Dura Plex (85 lb from 54 in.)

Figure B.231.4 Case 5U: Force vs. Absolute Displacement
Figure B.232.1 Case 6U: Force and Acceleration vs. Time

Figure B.232.2 Case 6U: Combined Plot
Figure B.232.3 Case 6U: Force vs. Velocity

Figure B.232.4 Case 6U: Force vs. Absolute Displacement
Case 7U: Precycled 7 ft. 3/8 in. Dura Plex (125 lb from 54 in.)

Figure B.233.1 Case 7U: Force and Acceleration vs. Time

Case 7U: Precycled 7 ft. 3/8 in. Dura Plex (125 lb from 54 in.)

Figure B.233.2 Case 7U: Combined Plot
Case 7U: Precycled 7 ft. 3/8 in. Dura Plex (125 lb from 54 in.)

Figure B.233.3 Case 7U: Force vs. Velocity

Figure B.233.4 Case 7U: Force vs. Absolute Displacement

560
Figure B.234.1 Case 1V: Force and Acceleration vs. Time

Figure B.234.2 Case 1V: Combined Plot
Case 1V: Precycled 7 ft. 3/8 in. XLS Yacht Braid (105 lb from 48 in.)

Figure B.234.3 Case 1V: Force vs. Velocity

Figure B.234.4 Case 1V: Force vs. Absolute Displacement
Case 2V: Precycled 7 ft. 3/8 in. XLS Yacht Braid (85 lb from 48 in.)

Figure B.235.1 Case 2V: Force and Acceleration vs. Time

Case 2V: Precycled 7 ft. 3/8 in. XLS Yacht Braid (85 lb from 48 in.)

Figure B.235.2 Case 2V: Combined Plot
Case 2V: Precycled 7 ft. 3/8 in. XLS Yacht Braid (85 lb from 48 in.)

Figure B.235.3 Case 2V: Force vs. Velocity

Case 2V: Precycled 7 ft. 3/8 in. XLS Yacht Braid (85 lb from 48 in.)

Figure B.235.4 Case 2V: Force vs. Absolute Displacement
Case 3V: Precycled 7 ft. 3/8 in. XLS Yacht Braid (65 lb from 48 in.)

![Force and Acceleration vs. Time](image1)

**Figure B.236.1 Case 3V: Force and Acceleration vs. Time**

Case 3V: Precycled 7 ft. 3/8 in. XLS Yacht Braid (65 lb from 48 in.)

![Combined Plot](image2)

**Figure B.236.2 Case 3V: Combined Plot**
Case 3V: Precycled 7 ft. 3/8 in. XLS Yacht Braid (65 lb from 48 in.)

Figure B.236.3 Case 3V: Force vs. Velocity

Figure B.236.4 Case 3V: Force vs. Absolute Displacement
Case 4V: Precycled 7 ft. 3/8 in. XLS Yacht Braid (45 lb from 48 in.)

Figure B.237.1 Case 4V: Force and Acceleration vs. Time

Figure B.237.2 Case 4V: Combined Plot
Figure B.237.3 Case 4V: Force vs. Velocity

Figure B.237.4 Case 4V: Force vs. Absolute Displacement
### 1/2-inch Tenex (Precycled)

<table>
<thead>
<tr>
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<th>Drop Number</th>
<th>Drop Height (in.)</th>
<th>Weight (lb)</th>
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<tr>
<td>Test Sequence One</td>
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<tr>
<td>Test 1W</td>
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<td>Test 2W</td>
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<td>Test 3W</td>
<td>3</td>
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Table B.9.1 Test Sequence for 1/2 in. Tenex (Precycled)

### 1/2-inch Tenex (New)

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<th>Weight (lb)</th>
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<td>Test 1X</td>
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<td>Test 2X</td>
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<td>45</td>
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<tr>
<td>Test 3X</td>
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<tr>
<td>Test 4X</td>
<td>4</td>
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<tr>
<td>Test 5X</td>
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<td>78</td>
<td>45</td>
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Table B.9.2 Test Sequence for 1/2 in. Tenex (New)

### 3/8-inch Tenex (New)

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Table B.9.3 Test Sequence for 3/8 in. Tenex (New)

### 3/8-inch Tenex (Precycled)

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<th>Weight (lb)</th>
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<td>Test 1Z</td>
<td>1</td>
<td>54</td>
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</tr>
<tr>
<td>Test 2Z</td>
<td>2</td>
<td>59</td>
<td>45</td>
</tr>
<tr>
<td>Test 3Z</td>
<td>3</td>
<td>59</td>
<td>45</td>
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<tr>
<td>Test 4Z</td>
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<td>59</td>
<td>45</td>
</tr>
</tbody>
</table>

Table B.9.4 Test Sequence for 3/8 in. Tenex (Precycled)

569
Case 1W: Precycled 1/2 in. Tenex (65 lb from 91 in.)

Figure B.238.1 Case 1W: Force and Acceleration vs. Time

Case 1W: Precycled 1/2 in. Tenex (45 lb from 55 in.)

Figure B.238.2 Case 1W: Combined Plot
Figure B.238.3 Case 1W: Force vs. Velocity

Figure B.238.4 Case 1W: Force vs. Absolute Displacement
Figure B.239.1 Case 2W: Force and Acceleration vs. Time

Figure B.239.2 Case 2W: Combined Plot
Figure B.239.3 Case 2W: Force vs. Velocity

Figure B.239.4 Case 2W: Force vs. Absolute Displacement
Figure B.240.1 Case 3W: Force and Acceleration vs. Time

Figure B.240.2 Case 3W: Combined Plot
Case 3W: Precycled 1/2 in. Tenex (45 lb from 61 in.)

Figure B.240.3 Case 3W: Force vs. Velocity

Figure B.240.4 Case 3W: Force vs. Absolute Displacement
Figure B.241.1 Case 1X: Force and Acceleration vs. Time

Figure B.241.2 Case 1X: Combined Plot
Case 1X: New 1/2 in. Tenex (45 lb from 54 in.)

Figure B.241.3 Case 1X: Force vs. Velocity

Figure B.241.4 Case 1X: Force vs. Absolute Displacement
Figure B.242.1 Case 2X: Force and Acceleration vs. Time

Figure B.242.2 Case 2X: Combined Plot
Figure B.242.3 Case 2X: Force vs. Velocity

Figure B.242.4 Case 2X: Force vs. Absolute Displacement
Case 3X: New 1/2 in. Tenex (45 lb from 66 in.)

![Graph showing force and acceleration vs. time](image1)

Figure B.243.1 Case 3X: Force and Acceleration vs. Time

Case 3X: New 1/2 in. Tenex (45 lb from 66 in.)

![Graph showing combined plot](image2)

Figure B.243.2 Case 3X: Combined Plot
Case 3X: New 1/2 in. Tenex (45 lb from 66 in.)

Figure B.243.3 Case 3X: Force vs. Velocity

Figure B.243.4 Case 3X: Force vs. Absolute Displacement
Case 4X: New 1/2 in. Tenex (45 lb from 72 in.)

Figure B.244.1 Case 4X: Force and Acceleration vs. Time

Case 4X: New 1/2 in. Tenex (45 lb from 72 in.)

Figure B.244.2 Case 4X: Combined Plot
Figure B.244.3 Case 4X: Force vs. Velocity

Figure B.244.4 Case 4X: Force vs. Absolute Displacement
Case 5X: New 1/2 in. Tenex (45 lb from 78 in.)

Figure B.245.1 Case 5X: Force and Acceleration vs. Time

Case 5X: New 1/2 in. Tenex (45 lb from 78 in.)

Figure B.245.2 Case 5X: Combined Plot
Case 5X: New 1/2 in. Tenex (45 lb from 78 in.)

Figure B.245.3 Case 5X: Force vs. Velocity

Figure B.245.4 Case 5X: Force vs. Absolute Displacement
Case 1Y: New 3/8 in. Tenex (45 lb from 55 in.)

![Case 1Y: Force and Acceleration vs. Time](image1)

Figure B.246.1 Case 1Y: Force and Acceleration vs. Time

![Case 1Y: Combined Plot](image2)

Figure B.246.2 Case 1Y: Combined Plot

586
Figure B.246.3 Case 1Y: Force vs. Velocity

Figure B.246.4 Case 1Y: Force vs. Absolute Displacement
Figure B.247.1 Case 2Y: Force and Acceleration vs. Time

Figure B.247.2 Case 2Y: Combined Plot
Figure B.247.3 Case 2Y: Force vs. Velocity

Figure B.247.4 Case 2Y: Force vs. Absolute Displacement
Case 1Z: Precycled 3/8 in. Tenex (45 lb from 54 in.)

Figure B.248.1 Case 1Z: Force and Acceleration vs. Time

Case 1Z: Precycled 3/8 in. Tenex (45 lb from 54 in.)

Figure B.248.2 Case 1Z: Combined Plot
Figure B.248.3 Case 1Z: Force vs. Velocity

Figure B.248.4 Case 1Z: Force vs. Absolute Displacement
Figure B.249.1 Case 2Z: Force and Acceleration vs. Time

Figure B.249.2 Case 2Z: Combined Plot
Figure B.249.3 Case 2Z: Force vs. Velocity

Figure B.249.4 Case 2Z: Force vs. Absolute Displacement
Figure B.250.1 Case 3Z: Force and Acceleration vs. Time

Figure B.250.2 Case 3Z: Combined Plot
Figure B.250.3 Case 3Z: Force vs. Velocity

Figure B.250.4 Case 3Z: Force vs. Absolute Displacement
Case 4Z: Precycled 3/8 in. Tenex (45 lb from 59 in.)

Figure B.251.1 Case 4Z: Force and Acceleration vs. Time

Case 4Z: Precycled 3/8 in. Tenex (45 lb from 59 in.)

Figure B.251.2 Case 4Z: Combined Plot
Figure B.251.3 Case 4Z: Force vs. Velocity

Figure B.251.4 Case 4Z: Force vs. Absolute Displacement
### 3/4-inch SSR 1200 (Precycled)

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<td>Test 5AA</td>
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<td>72</td>
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<td></td>
<td>Test 6AA</td>
<td>6</td>
<td>66</td>
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<td>Test Sequence Two</td>
<td>Test 7AA</td>
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<td>Test 8AA</td>
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Table B.10.1 Test Sequence for 3/4 in. SSR 1200 (Precycled)

### 3/4-inch SSR 1200 (New)

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<td>Test 2BB</td>
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Table B.10.2 Test Sequence for 3/4 in. SSR 1200 (New)
Figure B.252.1 Case 1AA: Force and Acceleration vs. Time

Figure B.252.2 Case 1AA: Combined Plot
Figure B.252.3 Case 1AA: Force vs. Velocity

Figure B.252.4 Case 1AA: Force vs. Absolute Displacement
Case 2AA: Precycled 3/4 in. SSR 1200 (65 lb from 90 in.)

Figure B.253.1 Case 2AA: Force and Acceleration vs. Time

Case 2AA: Precycled 3/4 in. SSR 1200 (65 lb from 90 in.)

Figure B.253.2 Case 2AA: Combined Plot
Case 2AA: Precycled 3/4 in. SSR 1200 (65 lb from 90 in.)

Figure B.253.3 Case 2AA: Force vs. Velocity

Case 2AA: Precycled 3/4 in. SSR 1200 (65 lb from 90 in.)

Figure B.253.4 Case 2AA: Force vs. Absolute Displacement
Case 3AA: Precycled 3/4 in. SSR 1200 (65 lb from 84 in.)

Figure B.254.1 Case 3AA: Force and Acceleration vs. Time

Case 3AA: Precycled 3/4 in. SSR 1200 (65 lb from 84 in.)

Figure B.254.2 Case 3AA: Combined Plot
Case 3AA: Precycled 3/4 in. SSR 1200 (65 lb from 84 in.)

**Figure B.254.3 Case 3AA: Force vs. Velocity**

Case 3AA: Precycled 3/4 in. SSR 1200 (65 lb from 84 in.)

**Figure B.254.4 Case 3AA: Force vs. Absolute Displacement**
Figure B.255.1 Case 4AA: Force and Acceleration vs. Time

Figure B.255.2 Case 4AA: Combined Plot
Figure B.255.3 Case 4AA: Force vs. Velocity

Figure B.255.4 Case 4AA: Force vs. Absolute Displacement
Figure B.256.1 Case 5AA: Force and Acceleration vs. Time

Figure B.256.2 Case 5AA: Combined Plot
Case 5AA: Precycled 3/4 in. SSR 1200 (65 lb from 72 in.)

Figure B.256.3 Case 5AA: Force vs. Velocity

Case 5AA: Precycled 3/4 in. SSR 1200 (65 lb from 72 in.)

Figure B.256.4 Case 5AA: Force vs. Absolute Displacement
Case 6AA: Precycled 3/4 in. SSR 1200 (65 lb from 66 in.)

Figure B.257.1 Case 6AA: Force and Acceleration vs. Time

Case 6AA: Precycled 3/4 in. SSR 1200 (65 lb from 66 in.)

Figure B.257.2 Case 6AA: Combined Plot
Figure B.257.3 Case 6AA: Force vs. Velocity

Figure B.257.4 Case 6AA: Force vs. Absolute Displacement
Case 7AA: Precycled 3/4 in. SSR 1200 (85 lb from 59 in.)

Figure B.258.1 Case 7AA: Force and Acceleration vs. Time

Case 7AA: Precycled 3/4 in. SSR 1200 (85 lb from 59 in.)

Figure B.258.2 Case 7AA: Combined Plot
Case 7AA: Precycled 3/4 in. SSR 1200 (85 lb from 59 in.)

Figure B.258.3 Case 7AA: Force vs. Velocity

Case 7AA: Precycled 3/4 in. SSR 1200 (85 lb from 59 in.)

Figure B.258.4 Case 7AA: Force vs. Absolute Displacement
Case 8AA: Precycled 3/4 in. SSR 1200 (85 lb from 71 in.)

Figure B.259.1 Case 8AA: Force and Acceleration vs. Time

Case 8AA: Precycled 3/4 in. SSR 1200 (85 lb from 71 in.)

Figure B.259.2 Case 8AA: Combined Plot
Figure B.259.3 Case 8AA: Force vs. Velocity

Figure B.259.4 Case 8AA: Force vs. Absolute Displacement
Case 1BB: New 3/4 in. SSR 1200 (65 lb from 96 in.)

Figure B.260.1 Case 1BB: Force and Acceleration vs. Time

Figure B.260.2 Case 1BB: Combined Plot
Figure B.260.3 Case 1BB: Force vs. Velocity

Figure B.260.4 Case 1BB: Force vs. Absolute Displacement
Case 2BB: New 3/4 in. SSR 1200 (65 lb from 90 in.)

Figure B.261.1 Case 2BB: Force and Acceleration vs. Time

Case 2BB: New 3/4 in. SSR 1200 (65 lb from 90 in.)

Figure B.261.2 Case 2BB: Combined Plot
Case 2BB: New 3/4 in. SSR 1200 (65 lb from 90 in.)

Figure B.261.3 Case 2BB: Force vs. Velocity

Figure B.261.4 Case 2BB: Force vs. Absolute Displacement
### 3/8-inch QS Polytron (Precycled)

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<td>79</td>
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<td>Test 3CC</td>
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<td>Test 4CC</td>
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<td>45</td>
</tr>
<tr>
<td>Test 5CC</td>
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<tr>
<td>Test 6CC</td>
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Table B.11.1 Test Sequence for 3/8 in. QS Polytron (Precycled)

### 3/8-inch QS Polytron (New)

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<th>Weight (lb)</th>
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<td>Test 1DD</td>
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Table B.11.2 Test Sequence for 3/8 in. QS Polytron (New)

### 1/2-inch QS Polytron (New)

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<th>Weight (lb)</th>
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<td>Test Sequence One</td>
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<td>25</td>
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<td>Test 1EE</td>
<td>2</td>
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<td>Test 2EE</td>
<td>3</td>
<td>74</td>
<td>25</td>
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Table B.11.3 Test Sequence for 1/2 in. QS Polytron (Precycled)
Case 1CC: Precycled 3/8 in. QS Polytron (25 lb from 67 in.)

Figure B.262.1 Case 1CC: Force and Acceleration vs. Time

Figure B.262.2 Case 1CC: Combined Plot
Figure B.262.3 Case 1CC: Force vs. Velocity

Figure B.262.4 Case 1CC: Force vs. Absolute Displacement
Case 2CC: Precycled 3/8 in. QS Polytron (25 lb from 73 in.)

Figure B.263.1 Case 2CC: Force and Acceleration vs. Time

Figure B.263.2 Case 2CC: Combined Plot
Case 2CC: Precycled 3/8 in. QS Polytron (25 lb from 73 in.)

Figure B.263.3 Case 2CC: Force vs. Velocity

Figure B.263.4 Case 2CC: Force vs. Absolute Displacement
Case 3CC: Precycled 3/8 in. QS Polytron (25 lb from 79 in.)

![Force and Acceleration vs. Time](image1)

Figure B.264.1 Case 3CC: Force and Acceleration vs. Time

Case 3CC: Precycled 3/8 in. QS Polytron (25 lb from 79 in.)

![Combined Plot](image2)

Figure B.264.2 Case 3CC: Combined Plot
Figure B.264.3 Case 3CC: Force vs. Velocity

Figure B.264.4 Case 3CC: Force vs. Absolute Displacement
Figure B.265.1 Case 4CC: Force and Acceleration vs. Time

Figure B.265.2 Case 4CC: Combined Plot
Figure B.265.3 Case 4CC: Force vs. Velocity

Figure B.265.4 Case 4CC: Force vs. Absolute Displacement
Case 5CC: Precycled 3/8 in. QS Polytron (45 lb from 55 in.)

Figure B.266.1 Case 5CC: Force and Acceleration vs. Time

Case 5CC: Precycled 3/8 in. QS Polytron (45 lb from 55 in.)

Figure B.266.2 Case 5CC: Combined Plot
Case 5CC: Precycled 3/8 in. QS Polytron (45 lb from 55 in.)

Figure B.266.3 Case 5CC: Force vs. Velocity

Figure B.266.4 Case 5CC: Force vs. Absolute Displacement
Case 6CC: Precycled 3/8 in. QS Polytron (45 lb from 61 in.)

Figure B.267.1 Case 6CC: Force and Acceleration vs. Time

Figure B.267.2 Case 6CC: Combined Plot
Case 6CC: Precycled 3/8 in. QS Polytron (45 lb from 61 in.)

Figure B.267.3 Case 6CC: Force vs. Velocity

Figure B.267.4 Case 6CC: Force vs. Absolute Displacement
Figure B.268.1 Case 1DD: Force and Acceleration vs. Time

Figure B.268.2 Case 1DD: Combined Plot
Figure B.268.3 Case 1DD: Force vs. Velocity

Figure B.268.4 Case 1DD: Force vs. Absolute Displacement
Case 2DD: New 3/8 in. QS Polytron (45 lb from 60 in.)

Figure B.269.1 Case 2DD: Force and Acceleration vs. Time

Figure B.269.2 Case 2DD: Combined Plot
Figure B.269.3 Case 2DD: Force vs. Velocity

Figure B.269.4 Case 2DD: Force vs. Absolute Displacement
Case 1EE: New 1/2 in. QS Polytron (25 lb from 62 in.)

Figure B.270.1 Case 1EE: Force and Acceleration vs. Time

Case 1EE: New 1/2 in. QS Polytron (25 lb from 62 in.)

Figure B.270.2 Case 1EE: Combined Plot
Figure B.270.3 Case 1EE: Force vs. Velocity

Figure B.270.4 Case 1EE: Force vs. Absolute Displacement
Figure B.271.1 Case 2EE: Force and Acceleration vs. Time

Figure B.271.2 Case 2EE: Combined Plot
Case 2EE: New 1/2 in. QS Polytron (25 lb from 68 in.)

Figure B.271.3 Case 2EE: Force vs. Velocity

Figure B.271.4 Case 2EE: Force vs. Absolute Displacement
Figure B.272.1 Case 3EE: Force and Acceleration vs. Time

Figure B.272.2 Case 3EE: Combined Plot
Figure B.272.3 Case 3EE: Force vs. Velocity

Figure B.272.4 Case 3EE: Force vs. Absolute Displacement