Releasing the Torsion Spring

1. Close and Latch the platform.

2. Apply pressure to the passenger side torsion spring arm in the counter-clockwise direction.
   Use an open-end wrench, crescent wrench, or vice grip (Figure 1).

3. Remove the 1/2" bolt and nut from the platform.
   Continue to hold counter-clockwise torque on the torsion spring arm.

4. Slowly Rotate the torsion spring arm clockwise until no resistance is felt.

Removing the Torsion Spring/Platform

**WARNING:** The platform may require up to 100 lbs. of force when lowering without torsion assist.

1. Unlatch and Unfold the platform.
   If the platform has a folding extension, leave it in the folded position.

2. Remove the platform drop chains and ROTATE the platform until it hangs vertically (Fig. 2).

3. Lower the liftgate until the platform rests on the ground (Figure 2).

4. Disconnect the #4 power cable from the positive side of the battery or manually Trip the circuit breaker (Figure 3).

5. Observe the position of the torsion spring arms with respect to each other.
   This is important when re-installing the torsion spring.

6. Remove the 1/2" bolt and lock washer from the driver side torsion spring arm (Figure 4).

7. Check for adequate platform support before removing the torsion spring arms.
   Without adequate support the platform could drop suddenly.

8. Remove the driver side torsion spring arm (Figure 4).

9. Remove the torsion spring from the driver side upright front (Figure 5).
   Note: The torsion spring could be round or square depending on the liftgate model.
   27" platforms may or may not have a torsion spring.

   Note: Shims are used between the sub-assembly upright front and each end of the platform on aluminum platforms. Label which side each shim was located (Figures 4 and 6).

10. Check for adequate platform support before removing the torsion spring arms.
    Without adequate support the platform could drop suddenly.

11. Remove the passenger side torsion spring arm (Figure 6).

12. Remove the platform.
Removing and Installing a Platform and/or Torsion Spring

Installing the Torsion Spring/Platform

1. **Place** the platform on end and support it to keep the platform from falling over (Figure 7).

2. **Position** the platform so that the platform hinge tube is aligned with the sub-assembly hinge tube holes (Figure 7).

3. **Apply** anti-seize to the outside surfaces of both torsion spring arm tubes.

4. **Insert** the passenger side torsion spring tube assembly through the upright front and into the platform hinge tube.
   - Be sure to install the passenger side shim (aluminum platform only) that was previously removed.

5. **Apply** anti-seize to the outside surfaces of each end of the torsion spring (square torsion spring only).

6. **Insert** the torsion spring through the driver side hinge tube hole (27" platform may or may not have a torsion spring).
   - Be sure to install the driver side shim (aluminum platform only) that was previously removed.

7. **Insert** the driver side torsion spring arm through the upright front and into the platform hinge tube.

8. **Install** a 1/2" hex head bolt and lock washer on the driver side torsion spring arm.

9. **Connect** the #4 power cable to the positive side of the battery or manually **Engage** the circuit breaker.

10. **Raise** the liftgate to the top of it's travel.

11. **Disconnect** the #4 power cable from the positive side of the battery or manually **Trip** the circuit breaker.

Setting the Torsion Spring

1. **Close** and **Latch** the platform.

2. **Position** the passenger side torsion spring arm as indicated in (Figure 8) and (Table 1) for your application.

   **Table 1:** Torsion spring arm position.

<table>
<thead>
<tr>
<th>X°</th>
<th>Platform and Torsion Spring Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>65</td>
<td>33+4 EA, 38/39+6 EA, G2 27+4 TP, G2 38+4 TP (round spring)</td>
</tr>
<tr>
<td>80</td>
<td>37+6 EA, 41/42+6 EA, 48+6 EA, G2-42+6 TP (round spring)</td>
</tr>
<tr>
<td>172</td>
<td>64SB Steel and 72 Steel (round spring)</td>
</tr>
<tr>
<td>19</td>
<td>80/81 Steel (square spring)</td>
</tr>
<tr>
<td>33</td>
<td>86/87 Steel and 91/92 Steel (square spring)</td>
</tr>
</tbody>
</table>

   Note: 27" EA platform does not require a torsion spring.

3. **Push** the passenger side torsion spring arm toward the center of the platform until it stops. This ensures that the torsion spring is fully engaged.

4. **Determine** how to attach the passenger side torsion spring arm to the platform for your application using (Figures 9 and 10).

5. **Rotate** the passenger side torsion spring arm until it aligns with the hole in the platform.
   - Use an open-end wrench, crescent wrench, or vice grip (Figure 8).

6. **Install** the 1/2" bolt and lock nut as shown in (Figure 9 or 10).

7. **Tighten** all 1/2" bolts and lock nuts to 75 ft-lb.
Removing and Installing a Platform and/or Torsion Spring

Installing the Platform Drop Chains

1. **Unlatch** the platform.

2. **Unfold** the platform partially and **Support** it in the partially open position.

3. **Install** the drop chains as shown in (Figure 11 or 12) if they are not already installed. For steel platforms, the lock nuts should be on the under-side of the platform.

4. **Install** the drop chains on the cable chain rivets (Figure 13). G2 Series drop chains may need to be rotated to align with a flat spot on the rivet.

Adjusting the Latches (G2 Series only)

1. **Loosen** the platform latch pins with a screw driver and wrench (Figure 14).

2. **Raise** the liftgate to the fully raised position.

3. **Close** and **Latch** the platform.

4. **Position** each latch pin in the latch hole/slot (Figure 15):
   - Centered vertically.
   - With an 1/8" gap toward the rear of the vehicle.

5. **Tighten** each latch pin to approximately 20 ft-lb.

Finishing the Repair

1. **Connect** the #4 power cable to the positive side of the battery or manually **Engage** the circuit breaker.

2. **Close** and **Latch** the platform.