



Adjusting the Center Pivot Bracket Bolt

Backshield counterweight kit assembly is applicable for 21' and larger sweeps.

1. Locate the center pivot bracket assembly (17) at the center well. Loosen the 3/4" pivot bolt (18) and nut (20) until only one thread is showing on bolt after the nut.

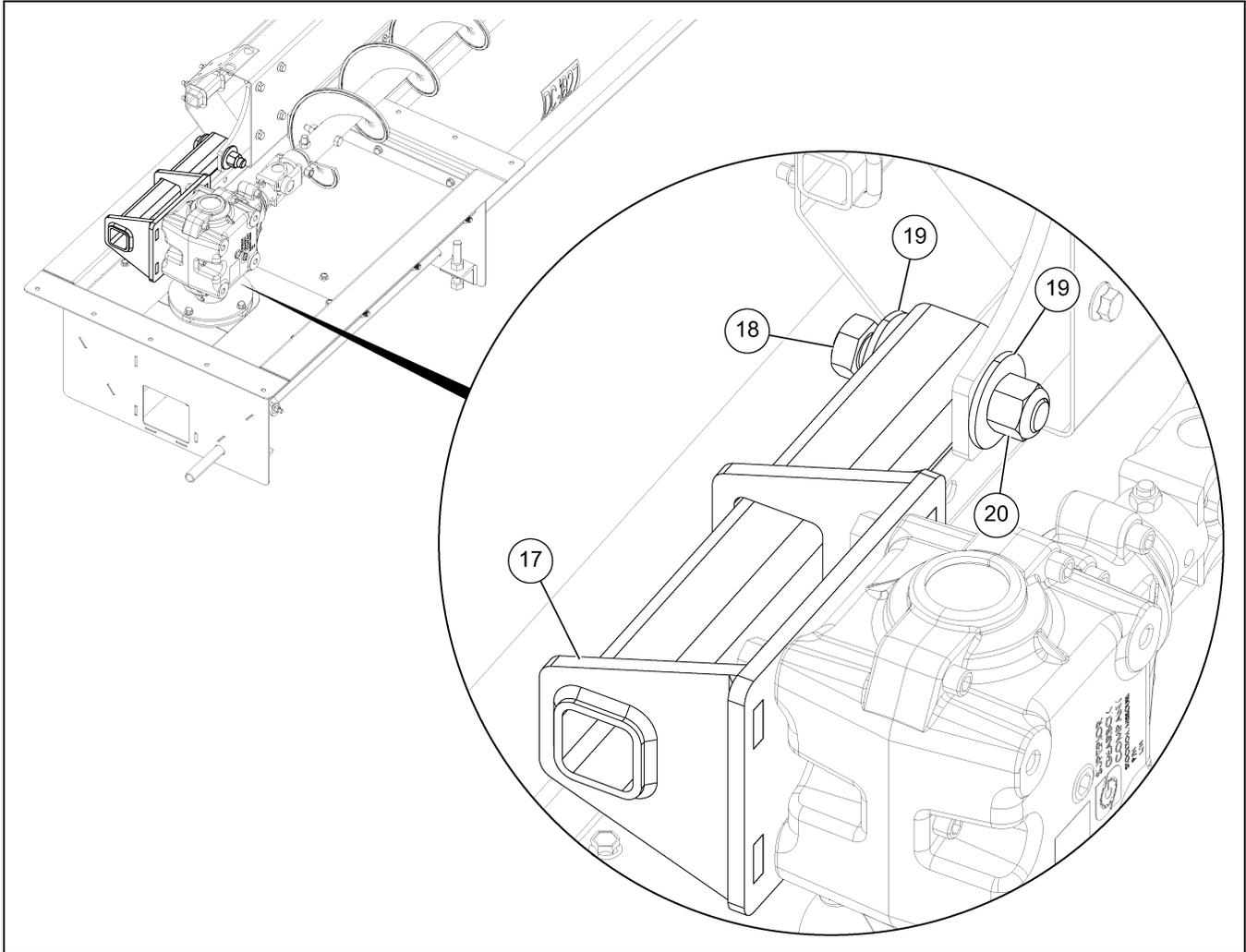
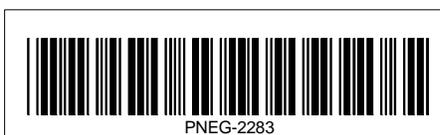


Figure 1 Adjusting the Center Pivot Bracket Bolt

| Ref # | Description |
|-------|-------------------------------|
| 17 | Center Pivot Bracket Assembly |
| 18 | 3/4" x 4" HHCS Bolt |
| 19 | 3/4" Flat Washer |
| 20 | 3/4" Nylock Nut |



Installing the Backshield Counterweight Retrofit Only

1. Position the hole on the torque tube bracket (5) at 16" from the end of the backshield (14) and mark four holes (15) on the backshield (14) using the holes of the torque tube bracket (5) as a template. Field drill four 3/8" holes (15) at the marked locations.

NOTE: The torque tube bracket (5) hole closest to the backshield (14) end should be used for measuring.

2. Install the torque tube bracket (5) to the backshield (14) using 3/8" x 3/4" carriage bolts (11) and 3/8" flange nuts (7).
3. Also, secure the torque tube bracket (5) to the torque tube (16) using two 5/16" x 1-1/4" U-bolts (9) and 5/16" nylock nuts (10).

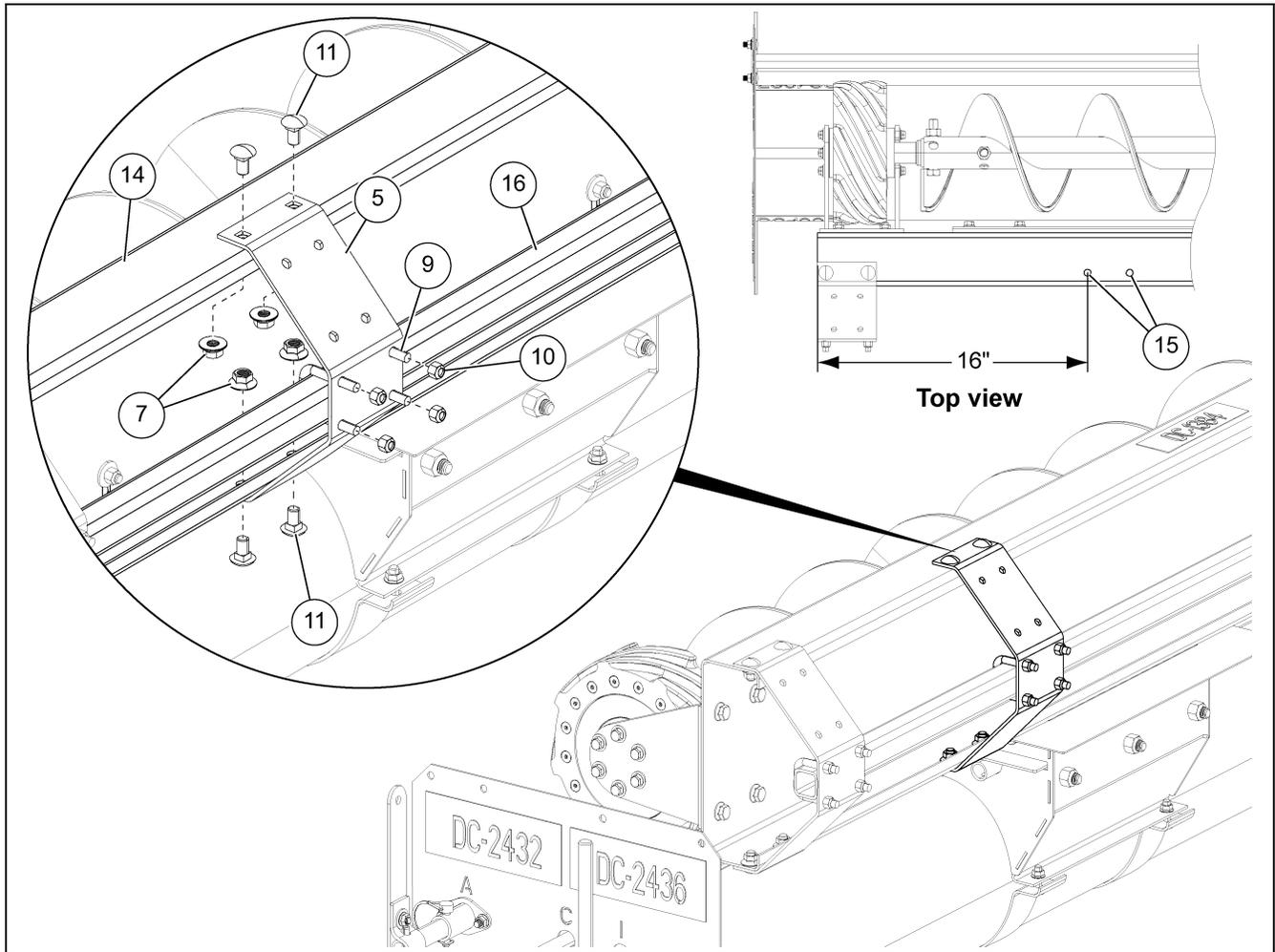


Figure 2 Installing the Torque Tube Bracket to the Backshield for Retrofit

| Ref # | Part # | Description |
|-------|---------|--------------------------|
| 5 | GK80377 | Torque Tube Bracket |
| 7 | S-968 | 3/8"-16 Flange Nut |
| 9 | S-10521 | 5/16"-18 x 1-1/4" U-Bolt |
| 10 | S-7382 | 5/16"-18 Nylock Nut |

| Ref # | Description |
|-------|---------------------------------------|
| 11 | 3/8"-16 x 3/4" Carriage Bolt (S-7391) |
| 14 | Backshield |
| 15 | 3/8" Field Drilled Holes |
| 16 | Torque Tube |

Installing the Backshield Counterweight Retrofit Only (Continued)

4. Measure 2-1/4" from the end of the torque tube bracket (5) and mark the location. Align the end of the counterweight support weldment (2) with the mark and field drill two holes on the backshield (14) using the holes in the counterweight support weldment (2) as a template.
5. Install the counterweight support weldment (2) to the field drilled holes in the the backshield (14) using 3/8" x 1" HHCS bolts (6) and 3/8" flange nuts (7).
6. Install the counterweight tube weldment (1) to the torque tube bracket (5) using mounting plate (3), 5/16" x 2" HHCS bolts (12) and 5/16" flange nuts (13).
7. Slide the counterweights (4) over the counterweight tube weldment (1) and secure the weights from slipping by adding lock pins (8) on both sides.

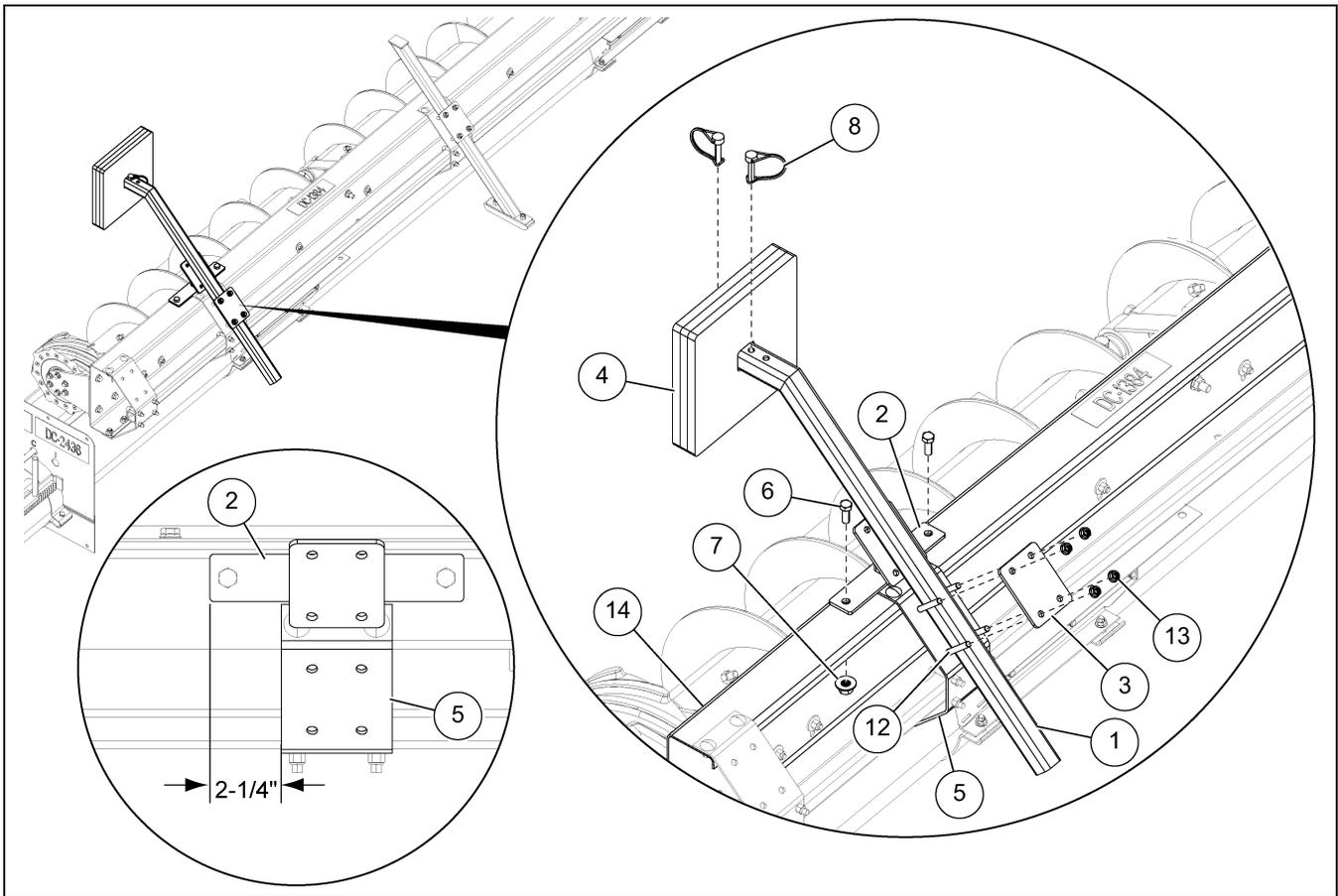


Figure 3 *Installing the Backshield Counterweight Retrofit*

| Ref # | Part # | Description |
|-------|-----------|---|
| 1 | GC21098-Y | Backshield Counterweight Tube Weldment |
| 2 | GC21091-Y | Backshield Counterweight Support Weldment |
| 3 | GC21093-Y | Mounting Plate |
| 4 | GC21090-Y | Counterweight |
| 5 | GK80377 | Torque Tube Bracket |
| 6 | S-7469 | 3/8"-16 x 1" HHCS Bolt |

| Ref # | Part # | Description |
|-------|---------|------------------------------|
| 7 | S-968 | 3/8"-16 Flange Nut |
| 8 | S-10547 | 5/16" x 3/8" Safety Snap Pin |
| 12 | S-7877 | 5/16"-18 x 2" HHCS Bolt |
| 13 | S-3611 | 5/16"-18 Flange Nut |
| 14 | | Backshield |

Installing the Backshield Counterweight Kit Assembly

Backshield counterweight kit assembly is applicable for 21' and larger sweeps.

1. Identify the correct torque tube bracket (5) to install the counterweight support weldment (2).
2. Align the counterweight support weldment (2) at the torque tube bracket (5) location and install it to the backshield (14) using 3/8" x 1" HHCS bolts (6) and 3/8" flange nuts (7).
3. Install the counterweight tube weldment (1) to the torque tube bracket (5) using mounting plate (3), 5/16" x 2" HHCS bolts (12) and 5/16" flange nuts (13).
4. Slide the counterweights (4) over the counterweight tube weldment (1) and secure the weights from slipping by adding lock pins (8) on both sides.

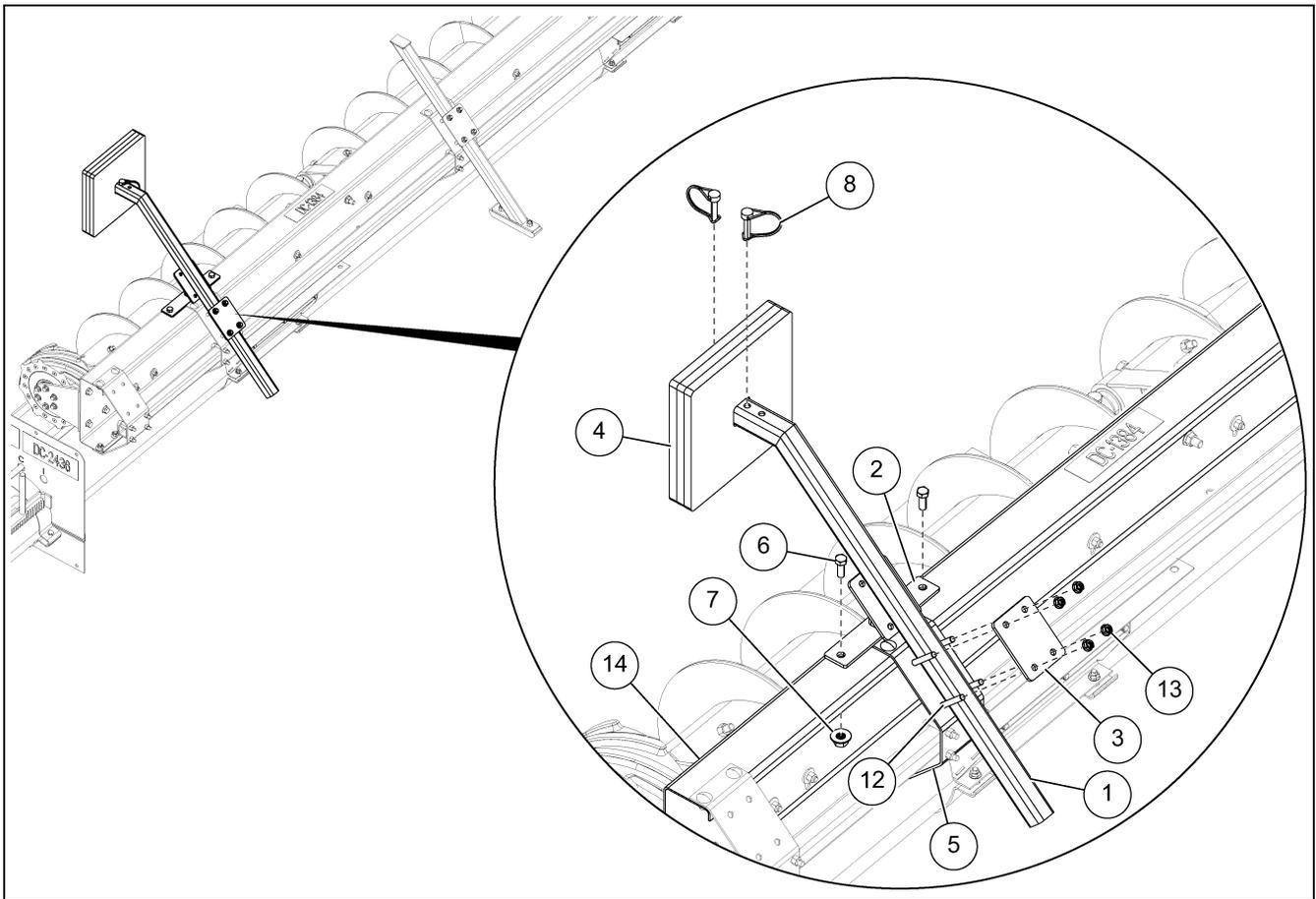


Figure 4 Installing the Backshield Counterweight Kit Assembly

| Ref # | Part # | Description |
|-------|-----------|---|
| 1 | GC21098-Y | Backshield Counterweight Tube Weldment |
| 2 | GC21091-Y | Backshield Counterweight Support Weldment |
| 3 | GC21093-Y | Mounting Plate |
| 4 | GC21090-Y | Counterweight |
| 5 | GK80377 | Torque Tube Bracket |
| 6 | S-7469 | 3/8"-16 x 1" HHCS Bolt |

| Ref # | Part # | Description |
|-------|---------|------------------------------|
| 7 | S-968 | 3/8"-16 Flange Nut |
| 8 | S-10547 | 5/16" x 3/8" Safety Snap Pin |
| 12 | S-7877 | 5/16"-18 x 2" HHCS Bolt |
| 13 | S-3611 | 5/16"-18 Flange Nut |
| 14 | | Backshield |

Installing the Backshield Counterweight Kit Assembly (Continued)

5. The backshield counterweight assembly (21) can be adjusted in the direction (as shown) for proper sweep clearance.

NOTE: When sliding the support down closer to the floor, it will raise the sweep off the floor and put down pressure onto the reduction wheel.

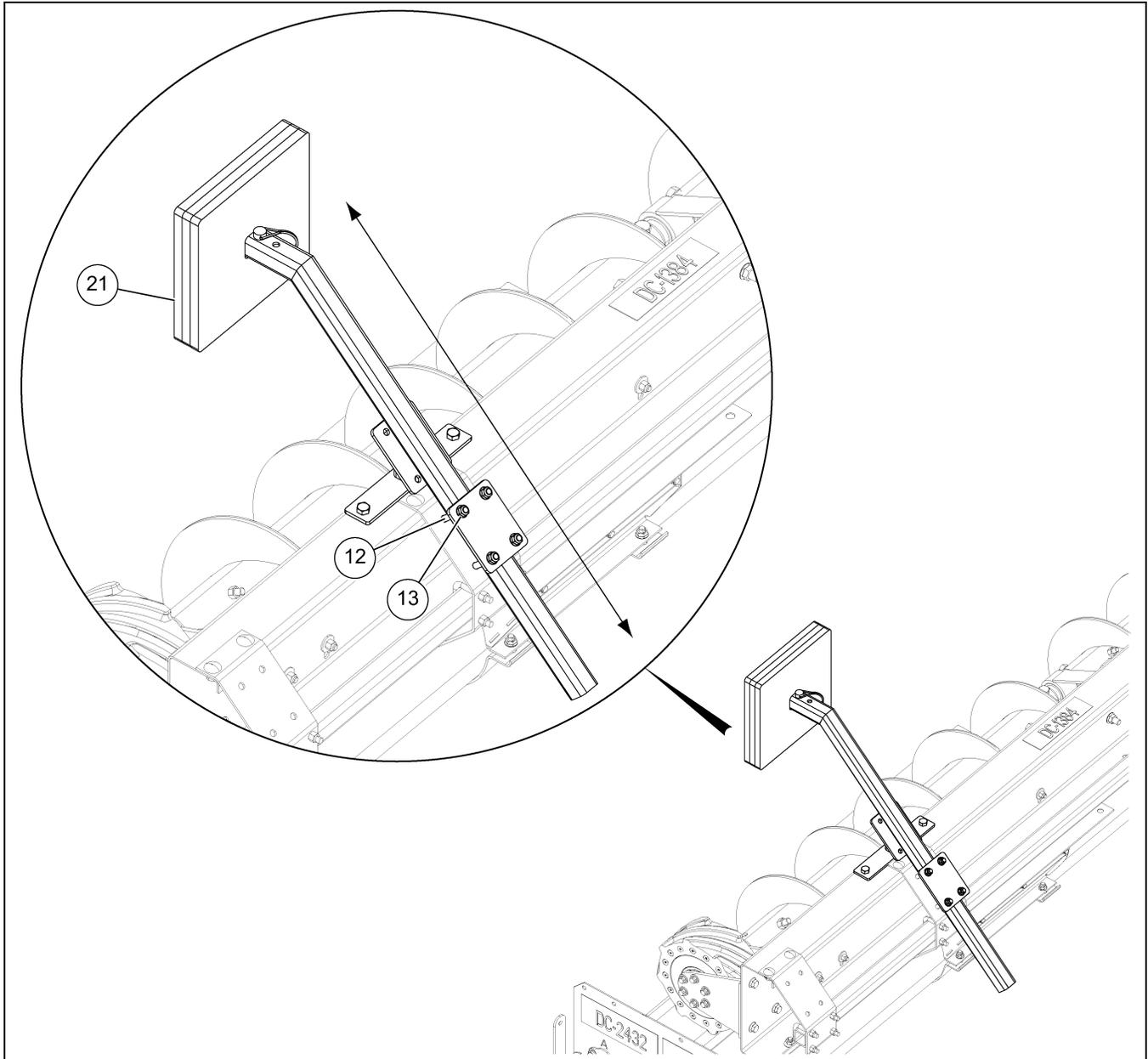


Figure 5 Adjusting the Backshield Counterweight Kit Assembly

| Ref # | Part # | Description |
|-------|--------|-----------------------------------|
| 12 | S-7877 | 5/16"-18 x 2" HHCS Bolt |
| 13 | S-3611 | 5/16"-18 Flange Nut |
| 21 | | Backshield Counterweight Assembly |

Backshield Counterweight Kit Parts (GK81281)

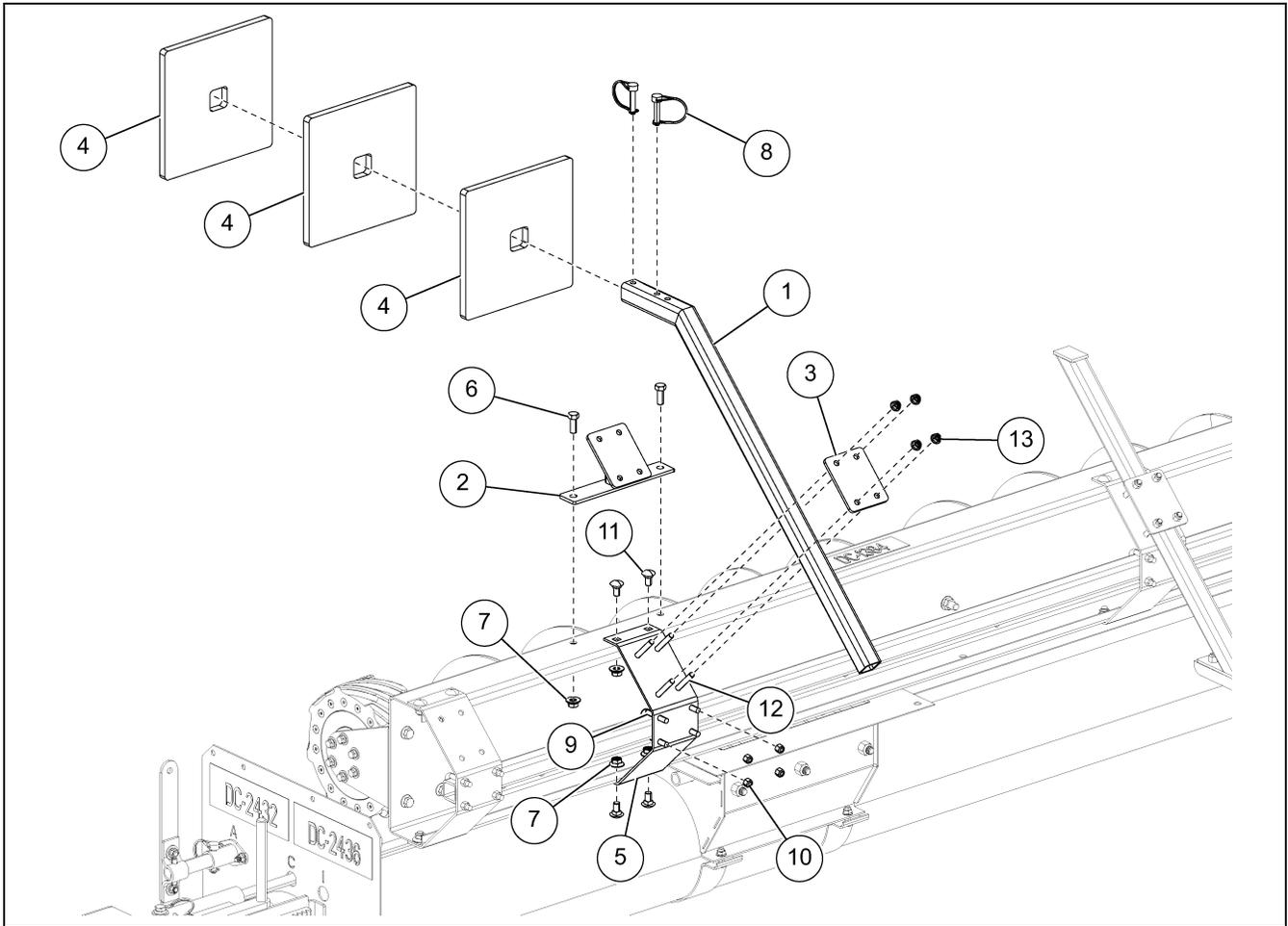


Figure 6 Backshield Counterweight Kit Parts

Backshield Counterweight Kit Parts List (GK81281)

| Ref # | Part # | Description | Qty |
|-------|-----------|--|-----|
| 1 | GC21098-Y | DGD Sweep Backshield Counterweight Tube Weldment | 1 |
| 2 | GC21091-Y | DGD Sweep Backshield Counterweight Support Weldment | 1 |
| 3 | GC21093-Y | DGD Sweep Backshield Counterweight Support - Lower Plate | 1 |
| 4 | GC21090-Y | DGD Sweep Backshield Counterweight | 3 |
| 5 | GK80377 | DGD Sweep Torque Tube Bracket | 1 |
| 6 | S-7469 | Bolt, HHCS 3/8"-16 x 1" ZN Grade 5 | 2 |
| 7 | S-968 | Nut, Flange 3/8"-16 ZN Grade 5 Wide Flange | 6 |
| 8 | S-10547 | Pin, Safety Snap 5/16" x 1-3/8" ZN | 2 |
| 9 | S-10521 | Bolt, U-Bolt 5/16"-18 x 1-1/4" IW x 2" IL x 3/4" TL ZN | 2 |
| 10 | S-7382 | Nut, Nylock 5/16"-18 ZN Grade 5 | 4 |
| 11 | S-7391 | Bolt, Carriage 3/8"-16 x 3/4" ZN Grade 5 | 4 |
| 12 | S-7877 | Bolt, HHCS 5/16"-18 x 2" ZN Grade 5 | 4 |
| 13 | S-3611 | Nut, Flange 5/16"-18 YDP Grade 2 | 4 |