

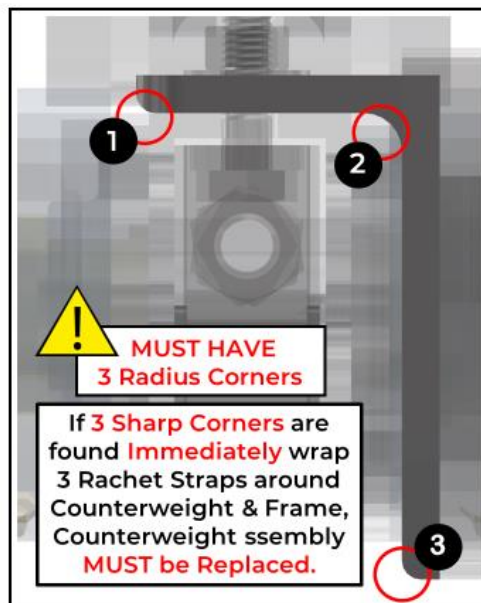


# TECHNICAL BULLETIN

June 30, 2021

## DCW Counterweight

Support Angles



Inspect




Confirm

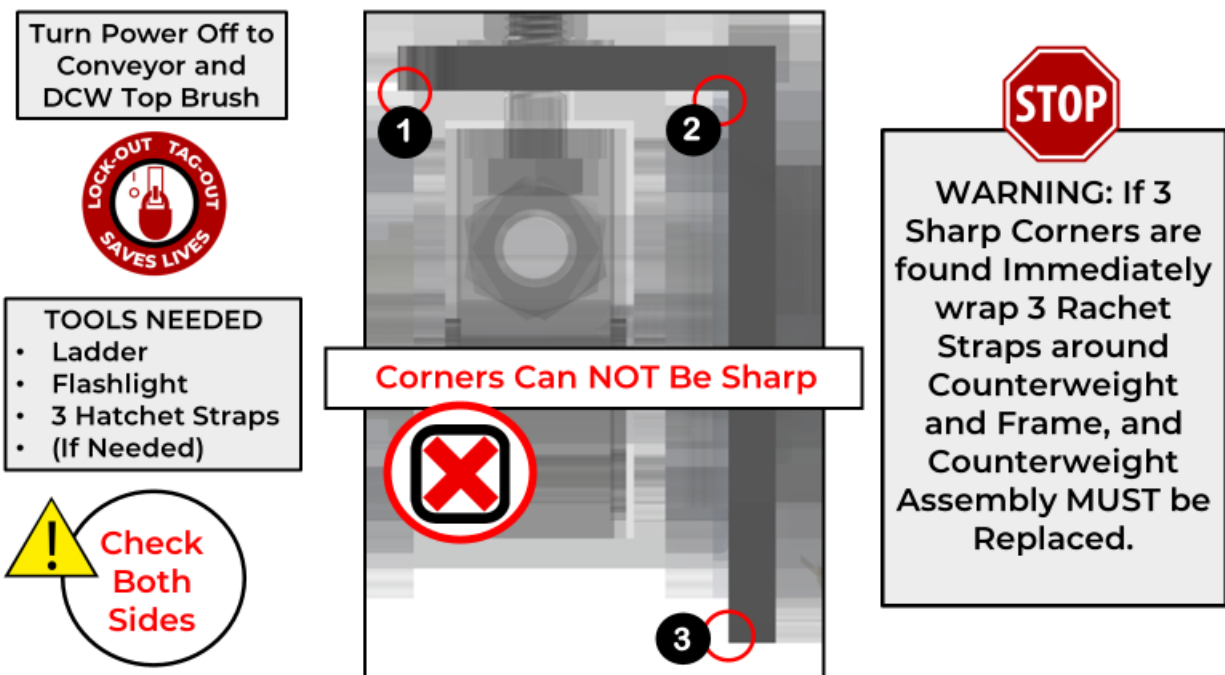
Inspection Required  
Prevent Injury & Death  
Prevent Damage & Liability  
MUST Have 3 Radius Corners  
If 3 Sharp Corners Are Found,  
Call Tech Support for IMMEDIATE Replacement

### SUMMARY

This Technical Bulletin has been issued as a Preventive Measure to guide installers and operators on how to identify and correct potential manufacturing imperfections. It has been identified that some DCW Top Brushes' Support Angles may have an Architectural Angle (sharp corners) instead of a Structural Angle (radius corners) on the Counterweight Assembly. As a result, **Immediate Inspection is Required.**

The information below covers how to identify if the piece of equipment is affected and initial steps to verify equipment is installed correctly.

 **WARNING:** To PREVENT an accident that might result in personal injury, death, and/or dismemberment, as well as vehicle, property, and equipment damages and/or failure; the Component on the Counterweight Weldment that attaches to the Aluminum H-Frame MUST have 3 Radius Corners as shown in this Technical Bulletin. If it does NOT, 3 Ratchet Straps MUST Be Installed IMMEDIATELY as a Preventive Measure and the Counterweight Assembly MUST be Replaced.




Turn Power Off to Conveyor and DCW Top Brush

**LOCK-OUT TAG-OUT SAVES LIVES**

**TOOLS NEEDED**

- Ladder
- Flashlight
- 3 Hatchet Straps (If Needed)

 **Check Both Sides**


**1** **2**

**Corners Can NOT Be Sharp**

**3**

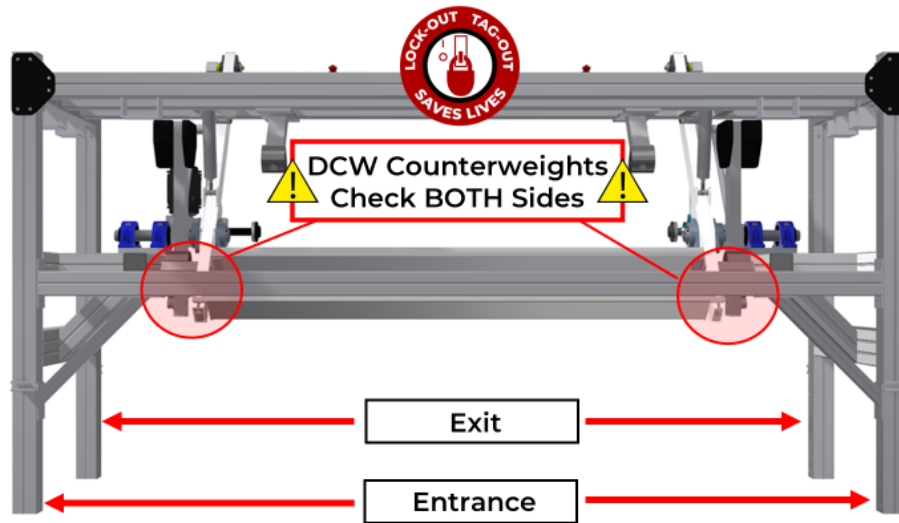
**STOP**

**WARNING: If 3 Sharp Corners are found Immediately wrap 3 Ratchet Straps around Counterweight and Frame, and Counterweight Assembly MUST be Replaced.**

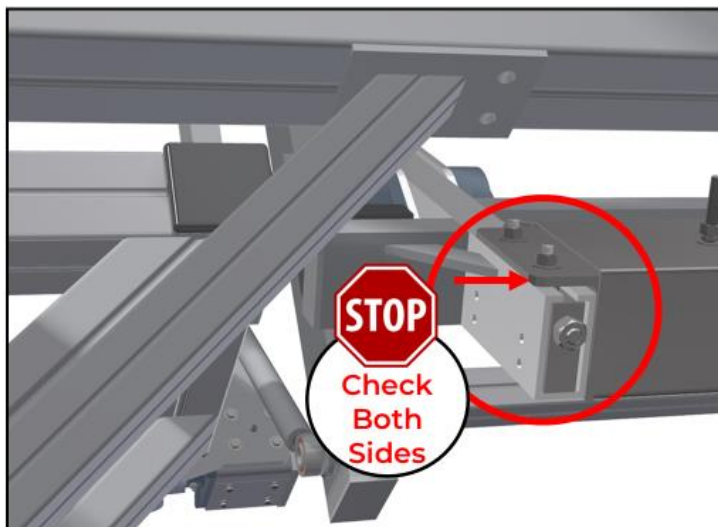
 **WARNING:** All parts and components MUST be installed, repaired, and retrofitted by experienced and trained technicians. Make sure to follow Local and State Safety Wear Required Regulations to ensure the safety of all personnel. Failure to follow Safety Regulations may result in personal injury, death and/or dismemberment.

### DETAILED INFORMATION

1. DCW Top Brush MUST be in the Retracted Position. Turn off power to conveyor and DCW Top Brush.
2. With the Brush Retracted, inspect the DCW Counterweight Assembly; and Facing towards the Exit of the Tunnel, inspect the Entrance Side of the DCW Top Brush. Inspect Both Sides.

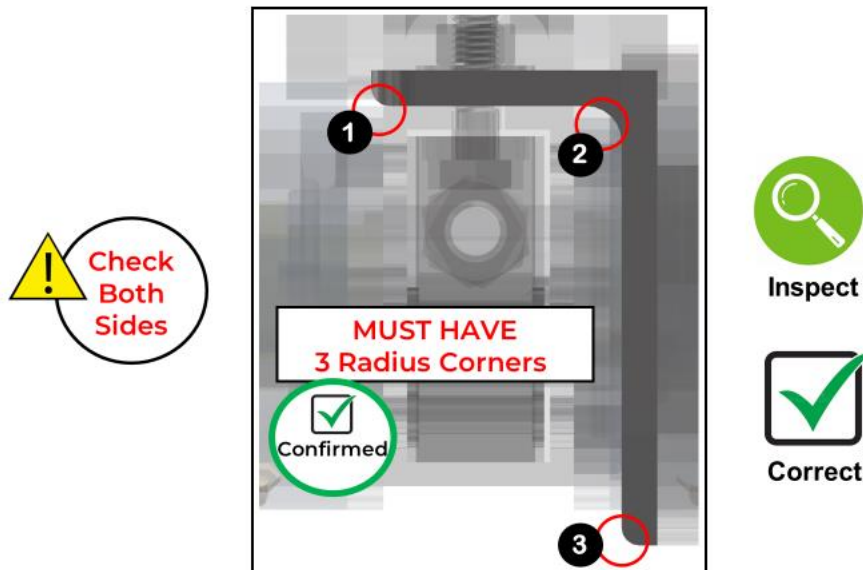


3. Using a ladder, get close to the Counterweight Assembly and look at where the Stainless Steel Angle attaches to the Aluminum H-Frame.

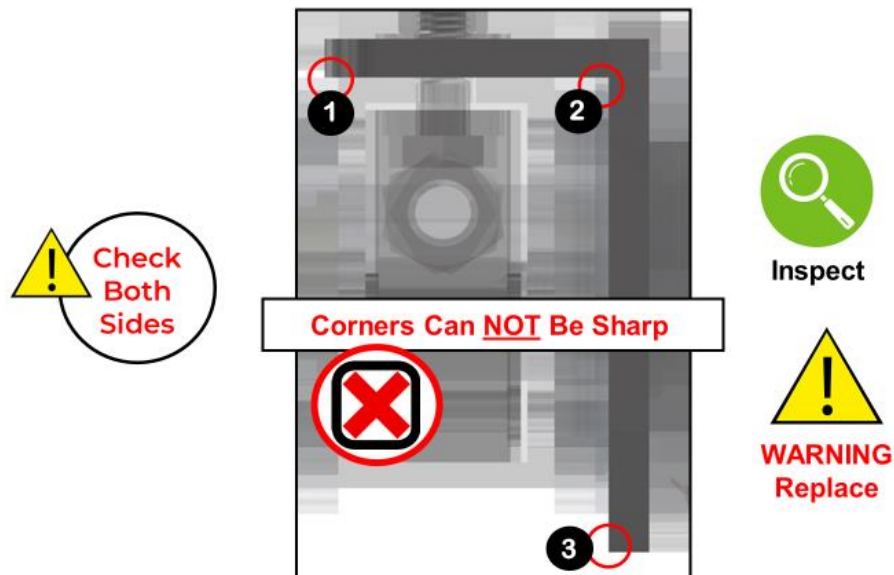


### DETAILED INFORMATION

4. If the Counterweight Assembly Component has a Structural Angle with **3 Radius Corners**, the Support Angles are **Correct**.



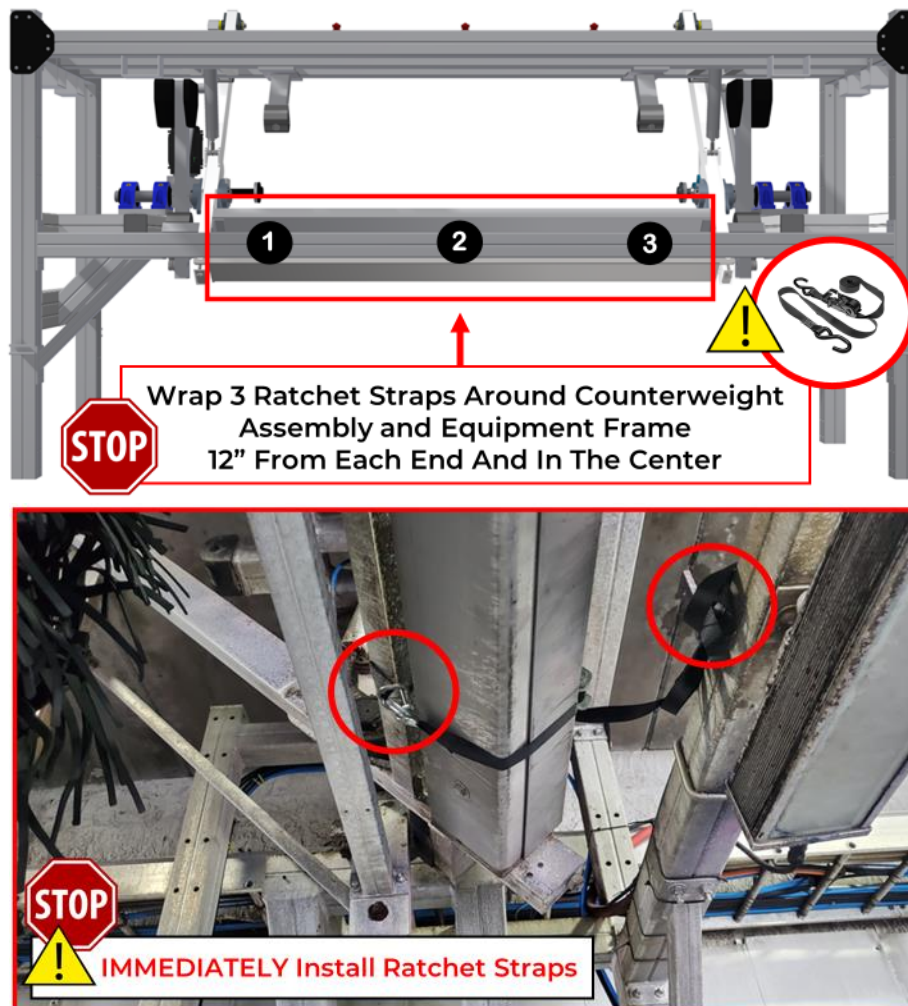
5. If the Counterweight Assembly Component has an Architectural Angle with **3 Sharp Corners**, the **Counterweight Assembly MUST Be Replaced**.



### DETAILED INFORMATION

6. As a **Safety Precaution**, wrap **3 Ratchet Straps** around Counterweight Assembly **and** Equipment Frame, 12" from each end and in the center.

**!** **WARNING:** 3 Ratchet Straps **MUST** Be Installed **IMMEDIATELY** if the Counterweight Assembly Support Angles have an Architectural Angle (3 sharp corners); to prevent an accident. This **MUST** be done as a Preventive Measure until the Counterweight Assembly can be Replaced.

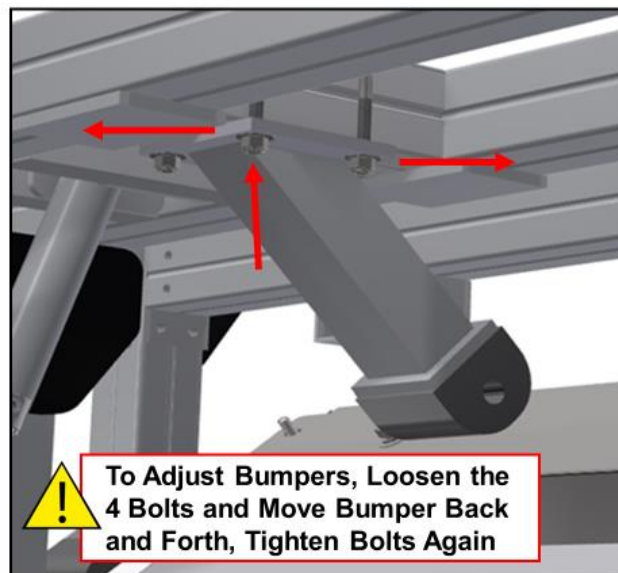
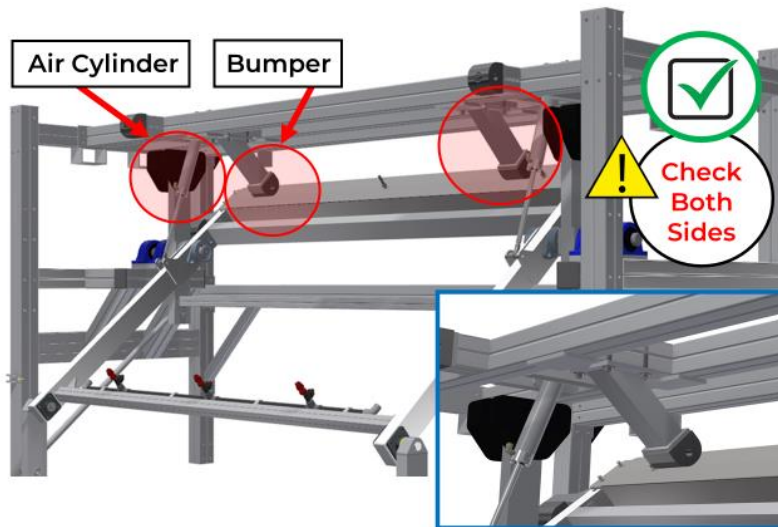


**!** **IMPORTANT:** Any questions regarding the installation of the Ratchet Straps, please call Sonny's Technical Support Team.

### TOP BRUSH RETRACT INSPECTION

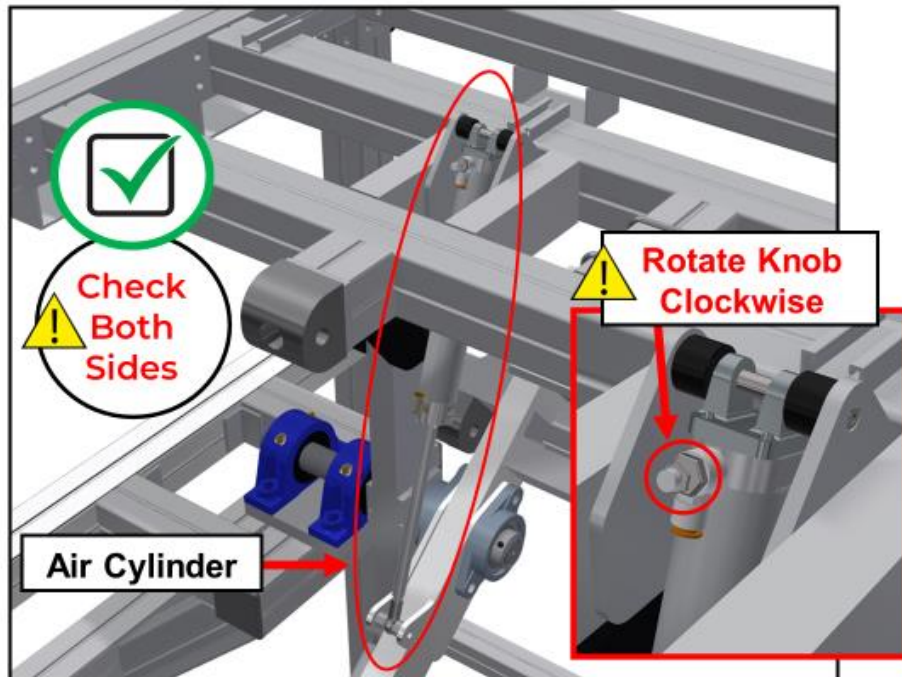
7. Check that Adjustable Bumpers are set up properly and Air Cylinder is **NOT** bottoming out in the stroke.

**!** **IMPORTANT:** When the Top Brush comes down to wash a vehicle, the Bumpers should contact the Counterweight Assembly and allow for compression of the Bumper before the Air Cylinder reaches the end of the stroke. **To adjust**, loosen the 4 Bolts that clamp the Bumper Assembly to the Cross Header. **Once loose**, slide back and forth to bring closer or further from the Counterweight Assembly.



## AIR PRESSURE & FLOW RATE INSPECTION

8. Air Pressure and Flow Rate **MUST** be inspected and adjusted if necessary. Retract motion **MUST** be smooth and come to a stop without bouncing off the Bumpers or high velocity impact to Bumpers.
  9. Increase Air Pressure until Top Brush fully retracts.
  10. Adjust Flow Control using Needle Valve on the Exhaust Port of the Air Cylinder, rotate the Knob clockwise to slow down the retract speed. Adjustments should be the same on both Air Cylinders.
- !** **IMPORTANT:** Air Pressure **MUST ONLY** be used for retracting and **NOT** for washing pressure.
11. When everything has been checked and corrected, remove the Lock-Out Tag-Out and restore power to conveyor and DCW Top Brush.



**!** **WARNING:** If inspected Counterweight Assembly Support Angles have an Architectural Angle (3 sharp corners), please call Sonny's Technical Support Team **IMMEDIATELY** to set up an appointment to replace the Counterweight Assembly.

