

---

## Attention Service Manager/Parts Department

---

**Bulletin Level:** 2\*

**Specific Warranty Coverage:** Standard Warranty

**Subject:** Deck Lift Actuator Spring Housing Material Correction

**Models Affected:** 34RST/Warrior (All 28" & 32" Models)

**Parts List Form Numbers Affected:** 56042485, 56042463

**ECO#:** A-06927

**Information Bulletin:** N/A

**Issue:** Spring Housing Separation

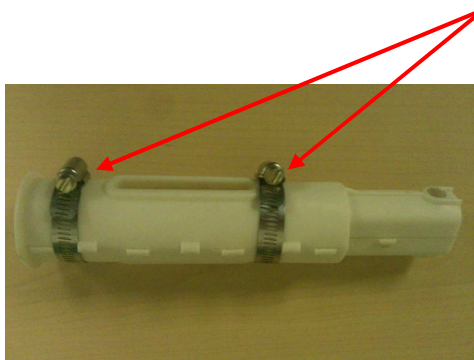
**Cause:** Subjecting the deck to vertical impact during severe use profiles or transportation with limited shock absorption may cause the spring housing to separate as shock loads are applied to the spring housings. A shipment of incorrectly specified material for the spring housing allowed for flexibility at the connection points in the seam, creating possible separation of the two spring housing halves during compression of the springs.

**Corrective Action:**

Factory:

*Initial Containment Action:* All machines built after SN 4000020209 (as well as all units shipped from the date of 6/10/11) were corrected with an addition of reinforcement hose clamps to the housing assembly.

*Permanent Corrective Action:* All machines built after SN 000022295 were corrected with an addition of worm clamps to the spring housings, along with housings of the corrected material to provide protection in the most extreme applications.



- Spring Housings 56109546 & 56109547 made of correct material 6/17 in replacement parts
- Spring Housings 56109546 & 56109547 made of correct material 6/18-6/20 in production

\* **Technical Service Bulletin Levels:**

**Level 1:** These Bulletins contain general information and are without specific warranty coverage.

**Level 2:** These Bulletins describe continuous quality improvements that are made to products. Specific warranty coverage may apply and if so is noted in the Bulletin.

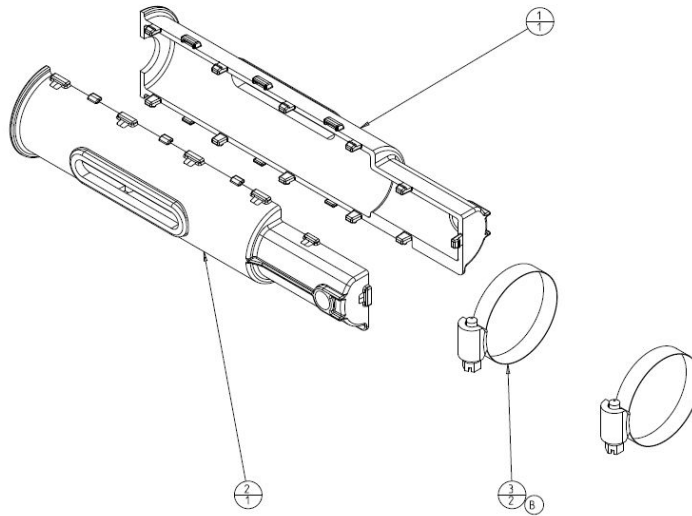
**Level 3:** These Bulletins describe a quality problem that has been determined to require a mandatory update to the product. Specific warranty coverage is as noted in Bulletin.

The service kits listed below have been updated with the correct material housing implemented on 6/13/11, no SN break available.

- 56109636 SPRING HOUSING KIT
- 56344161 LIFT ACTUATOR ASSEMBLY

Field: Replace the actuator spring housing kit PN56109636 with the components shown below:

| Figure | QTY | PART NUMBER | DESCRIPTION            |
|--------|-----|-------------|------------------------|
| 1      | 1   | 56109546    | SPRING HOUSING (Left)  |
| 2      | 1   | 56109547    | SPRING HOUSING (Right) |
| 3      | 2   | 56329145    | CLAMP- HOSE SAE #24    |



## SCRUB BRUSH LIFT ACTUATOR REMOVAL

### WARNING!

Disconnect the battery pack connector before servicing machine.

1 With scrub brushes installed, lower the scrub brush deck, turn the key switch off and disconnect the battery pack.

**Note:** If the lift actuator motor will not move, go to step 2, then shim up the brush deck to relieve the pressure on the connecting hardware to ease removal of the Lift Actuator Assembly (T).

2 Remove the front nose cone by firmly grasping the lower part and lifting straight up.

3 Disconnect the actuator motor wiring harness pigtail connector.

**Service Note:** If you have an optional Actuator Power Cord Adapter (Advance Part #56407502), you can use the Adapter to run the lift actuator up or down to relieve the pressure on the connecting hardware and ease removal of the Lift Actuator Assembly (T).

4 Remove either of the Cotter Hair Pins and remove the Pin to detach the Lift Actuator Assembly (T) from the lower mount on the Deck Weldment.

**Note:** Lift up on the scrub brush deck to take pressure off the Pin.

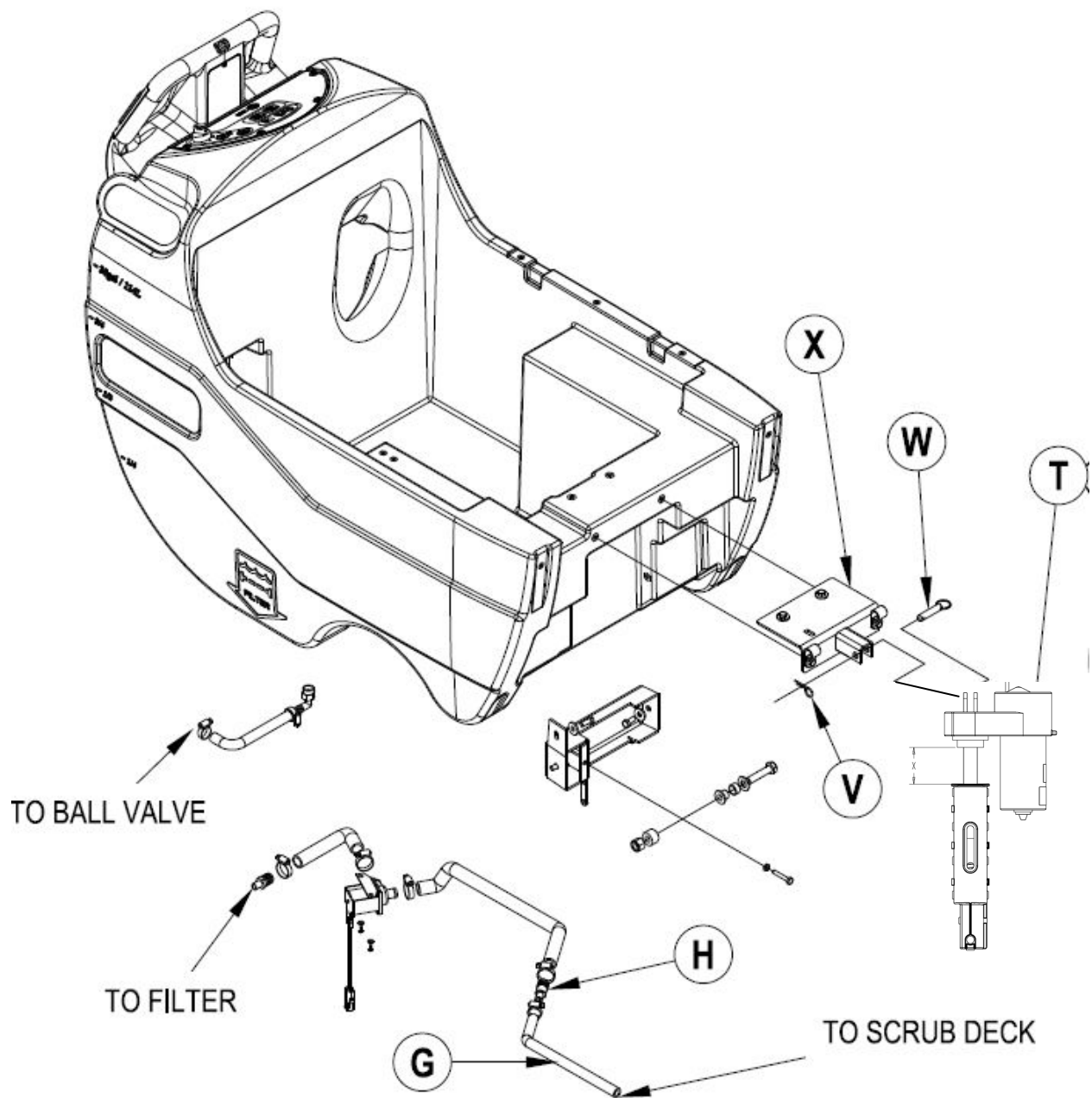
5 Remove the Cotter Hair Pin (V) from the Ring Pin (W).

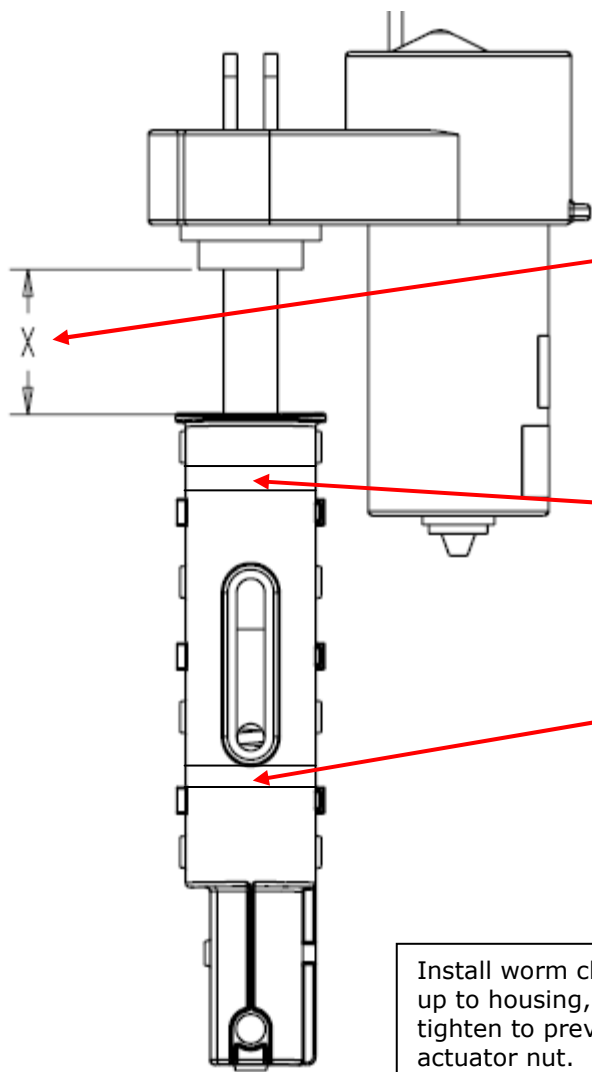
6 Hold the Lift Actuator Assembly (T) securely, remove the Ring Pin (W) from the Actuator Mount Weldment (X), then remove the Lift Actuator Assembly (T) from the machine.

7 See **\*Important Service Note** below.

8 Reinstall in reverse order.

**\*Important Service Note:** When you've installed a new motor or drive nut or spring housing in an actuator lift assembly or if the actuator has gotten out of adjustment, you must check the actuator "IN" and "OUT" travel limits and set them to the correct specifications. After setting the correct actuator "IN" and "OUT" travel limits, follow the above removal steps in reverse order to reassemble.



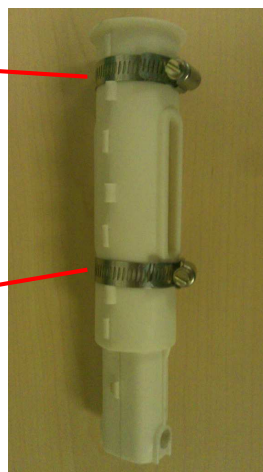


#### Actuator Adjustments:

Actuator travel limit positions need to be set. Please use extend and retract dimensions for length "X" shown left.

Retracted 0.845-0.910

Extended 4.905-4.970



Install worm clamps as shown. Snug up to housing, but do not over-tighten to prevent binding of the actuator nut.