

TECHNICAL PROCEDURE

DOCK SOLUTIONS VANTRAAX®

SUBJECT: Component Installation Update

LIT NO: L718

DATE: July 2017

REVISION: C

NOTE: For more details, refer to Hendrickson literature number L715 *SURELOK® Installation Procedures*. Not applicable to purchases after October 2015.

For general safety and precautionary statements, refer to Hendrickson literature number T12007, available at www.Hendrickson-intl.com/TrailerLit.

QUANTITY	PART NUMBER	DESCRIPTION
1	C-24488	Actuator
2	A-24482-1	Speed nuts
1	B-24495	Return spring
1	SA-1100-30	3/8" -16 x 6" UNC grade 8 bolt
1	SA-1500-35	Hardened flat washer
1	SA-7000-3	3/8" Flanged nut

Table 1: SURELOK® actuator mechanism components

INSTALLING RESTRAINING BOLT

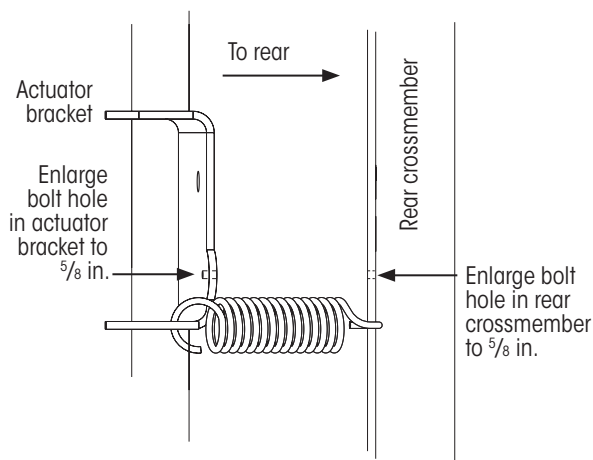


Figure 1: Increase size of bolt holes (top view)

NOTE: Step 1 only applies if replacing cable restraint with bolt shown in Figure 2.

1. **Enlarge** bolt holes in the actuator bracket to $\frac{5}{8}$ inch and in rear crossmember to $\frac{5}{8}$ inch (Figure 1 and Figure 4).
2. **Place** hardened flat washer onto bolt.

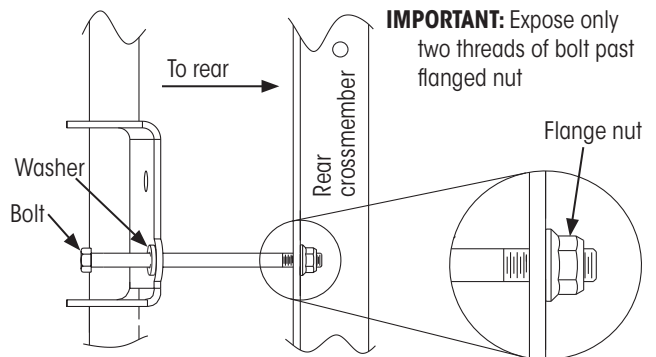


Figure 2: Installing bolt with two threads showing (top view)

3. **Insert** bolt with hardened flat washer through bolt hole in actuator bracket and through bolt hole in rear crossmember (Figure 2).
4. **Thread** flanged nut onto bolt and tighten until two threads are visible past the nut (Figure 2).

INSTALLING RETURN SPRING

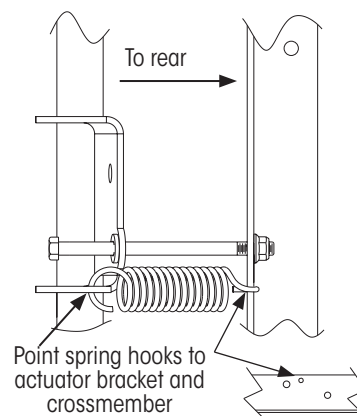


Figure 3: Installing return spring (top view)

1. **Hook** one end of return spring into actuator bracket (Figure 3 and Figure 4).

2. **Point** opposite spring hook toward rear crossmember.
3. **Stretch** return spring over rear crossmember and hook into hole provided (Figure 3).
4. **Verify** return spring has tension; lock ride height lock assembly in the forward position.

If the return spring has tension, go to **INSTALLING ACTUATOR** procedure.

If tension is not present, continue with the following steps:

- A. **Remove** the return spring.
- B. If needed, **readjust** leg assembly. **Move** legs as far forward as possible.
- C. **Torque** bolts to 100 ± 10 ft. lbs. (140 ± 9 Nm). Refer to Hendrickson literature number **L715** for procedure on readjusting leg assembly.
- D. **Repeat** procedure from Step 1.

INSTALLING ACTUATOR

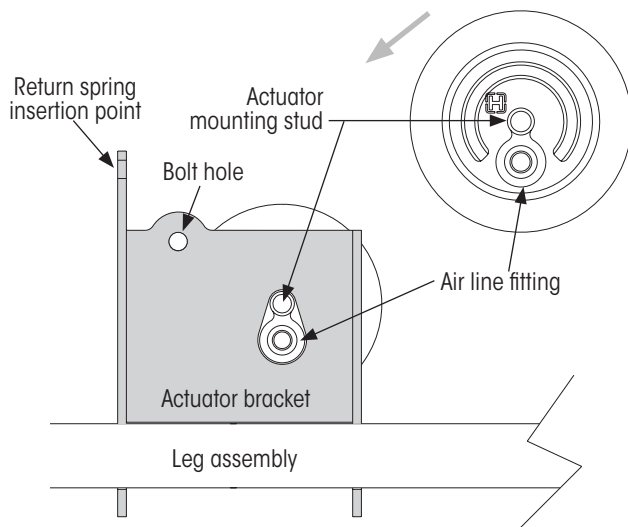


Figure 4: Installing actuator (rear view)

1. **Place** air spring stud into mounting hole in the actuator bracket (Figure 4).
2. **Place** other air spring stud into mounting hole in rear crossmember (Figure 5).
3. **Install** speed nuts with hammer and square end of any $\frac{1}{2}$ inch deep-well socket.

4. **Tighten** air line fitting onto air spring. Torque to 10 ± 1 ft. lbs. (14 Nm).
5. **Connect** air line to emergency air service line; refer to **B-23656 SURELOK® Plumbing Schematic**.
6. **Route** line back to air spring actuator at rear of slider box.

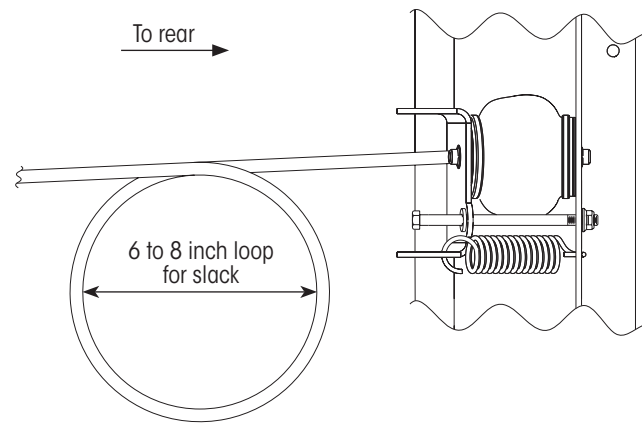


Figure 5: Connecting air line to actuator (top view)

7. Make a **loop** of 6 to 8 inches in the air line near front of air spring actuator.

IMPORTANT: Extra air line allows proper operation of SURELOK without damaging air line and/or air spring actuator.

8. **Connect** air line to air spring actuator (Figure 5).

CHECKING SURELOK OPERATION

1. **Fill** the air tank and air springs from shop air or an attached power unit.

⚠ CAUTION: Trailer brakes release during this step. **STAY CLEAR** of the trailer when **SURELOK disengages**, and the trailer rises.

2. **Cycle** SURELOK through engagement and disengagement to **check** for proper operation.
3. **Check** connections and air line for air leaks. If a loose connection exists, tighten connection according to step 4 in **INSTALLING ACTUATOR**. If the air line has a leak, replace it.
4. **Check** ride height. If necessary, adjust to designed ride height. Refer to Hendrickson literature number **L459** for procedure.

Call Hendrickson at **866.RIDEAIR (743.3247)** for additional information.



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