REFERENCE: VA 3 LEAF SPRING REPLACEMENT PROCEDURE

OVERVIEW: This procedure outlines the removal and installation of a transverse leaf spring in the VA and CST dolly series.

CAUSE FOR ACTION: In certain situations - the second leaf of the 3 leaf spring pack may crack and break, lowering the load carrying ability of the spring. VA units equipped with 3 leaf springs should be periodically inspected for broken leaves. If broken spring packs are discovered, the spring pack should be replaced as soon as practical. (see picture below)

UNITS INVOLVED: All units equipped with 3 leaf springs.
Units equipped with 7 leaf springs are not affected.

SAFETY: Fifth wheel tables are HEAVY (Approx. 500 lbs.) – do not attempt to lift without the use of a hoist
VA 3 LEAF SPRING REPLACEMENT PROCEDURE

TOOLS REQUIRED:

- Hoist
- Hammer
- 1 ½” Socket
- Tape Measure
- 15/16” Socket
- Torque Wrench
- Square
- 3/4” Socket
- Pry Bar
- 15/16” Wrench
- Wood Block
- 3/4” Wrench

PARTS REQUIRED:

- 3 Leaf Spring Pack (SEMCO P/N 9631)
- 5/8” UNC Grade 5 Bolts (12)
- U bolts (SEMCO P/N 11805) (2 per spring)
- 5/8” Flat Washers (12)
- Washers (SEMCO P/N 1540) (4 per spring)
- 5/8” UNC Locking Nuts (12)
- Nuts (SEMCO P/N 3398) (4 per spring)

PROCEDURE:

- While supporting the table securely with the hoist, remove the spring boot bolts and housings.
  
  Note: It may be necessary to pry off the boot housings.

- Lift the table and spring assembly off of the dolly frame

- Using the hoist, place the table onto the floor and then rotate it so that it is upside down.

- Remove the boot housing rubbers, spring mounting nuts, U bolts and pressure plate

- Remove the broken spring pack and discard it.

- Install the new spring pack.
  
  - Center the spring per drawing 00-223
  
  - Torque the spring nuts per drawing 00-223
  
  - Reinstall the spring boot rubbers

- Using the hoist, rotate the table so that it is right side up

- Reinstall the spring boot housings
  
  Note: It may be necessary to drive the boot housings onto the spring boot rubbers – use a block of wood to protect the spring boot housings and lubricate the spring boot rubbers using soapy water.

- Reinstall the table and spring assembly

- Using the hoist, lift the table and spring assembly onto the dolly frame. Align the bolt holes and fasten the spring boots to the frame with new hardware. Torque spring boot fasteners to 115 ft-lbs.
NOTES:

1. APPLICATION: USE WITH VA DOLLY WITH 3-LEAF SPRINGS
2. TIGHTEN U-BOLT NUTS TO 375 ± 10 LB-FT TORQUE.

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5TH WHEEL W/ FLAT-BOTTOM CENTER CASTING

USE SQUARE

USE FLAT SURFACE OR STRAIGHT EDGE

DOUBLE BOOT HOUSINGS WITH BOOT RUBBERS

DIM "A" TO EQUAL "B" WITHIN 1/8"

U-BOLT EARS ON 5TH WHEEL CENTER CASTING

ITEM | QTY | PART no. | DWG No. | DESCRIPTION
--- | --- | --- | --- | ---
1 | 2 | 9631 | 97-088 | SPRING ASSY 3-LEAF 2-STAGE 10,000 LB
2 | 2 | 13779 | 99-173 | PRESSURE PLATE 4" CENTER HOLE FLAT CUSHION
3 | 4 | 11805 | 97-200 | U-BOLT 1 X 4 X 6-1/2 RT GRADE 8
4 | 8 | 1540 | | WASHER, 1 1/32 X 1 5/8 X .0825, FLAT, HRXN, PLTD
5 | 8 | 3398 | | NUT, 1-14 UNF, THICK, HK, GR 8, PLTD

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Rev. 00-223

CHECKED: JCY

DRAWING #: 00-223

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