

## Procedure: Remove Reverse Lock-up from 3-Point Lap and Shoulder Belt

### 1. SUMMARY

- 1.1. The purpose of this procedure is instruction of steps to follow in event of reverse lock-up occurrence on 3-point lap and shoulder belt.
- 1.2. Engineering dept. is responsible for implementation and management of this procedure.

### 2. REVISION AND APPROVAL

Rev.	Date	Nature of Changes	Approved By
0	7/16/2020	Original issue.	J Rebman

### 3. PROCEDURE:

- 3.1. In event of reverse lock up occurrence on 3-point lap and shoulder belt, the following items should be reviewed: webbing and hardware.
  - 3.1.1. Webbing:
    - 3.1.1.1. Pull webbing out towards female buckle receiver – as if a body is in the seat. Release webbing and allow to return into retractor with no assistance. If belt returns into retractor, **procedure is complete**. If not, continue to section 3.1.1.2.



- 3.1.1.2. Inspect webbing for fraying, tears or wear. If conditions are present, retractor requires replacement.

- 3.1.1.3. Inspect webbing ensuring it is not rolled or folded at upper D ring location. If conditions are present, unroll or unfold.

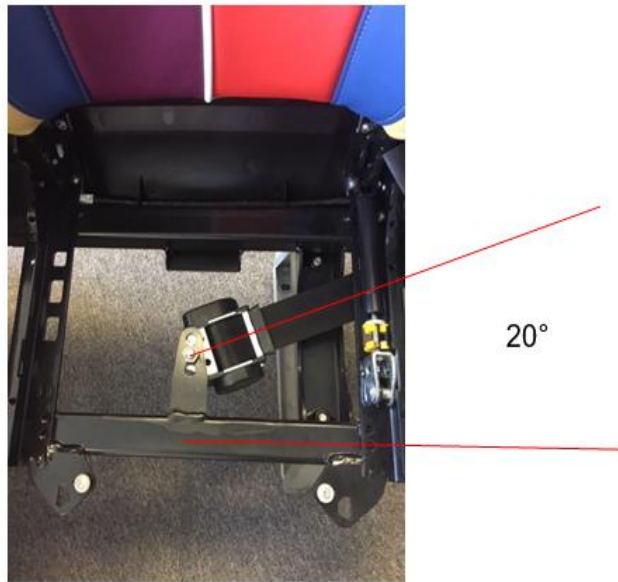


- 3.1.1.4. Remove seat cushion by lifting at front. Inspect webbing at retractor for rolling. Unroll webbing if this has occurred.



3.1.2. Hardware:

- 3.1.2.1. Inspect retractor position. Retractor should be at approximate 20° angle with horizontal frame tube. If angle is correct continue to section 3.2. If angle adjustment is required, re-torque to 24Nm or 18ft lbs. Retest belt. If condition is resolved **procedure is complete.**



3.2. Unlock:

- 3.2.1. Pull webbing up at retractor exit location with some force to tighten webbing on spool to allow for more webbing to feed back onto spool.

Red arrow retractor exit location



Blue arrow shows pull direction

- 3.2.2. Feed the loose webbing back into the retractor. If needed webbing can be aided back onto spool manually. Upon completion, re-test belt. (see 3.1.1.)



- 3.2.3. If belt still exhibits reverse lock up position, contact Kiel NA Field Service, 574-327-2051.

#### 4. MAINTENANCE INFORMATION AND RECOMMENDATIONS

- 4.1. Important: Never disassemble retractor housing. This constitutes a safety hazard and should only be performed by belt manufacturer.**
- 4.2. Service and maintenance should be performed by qualified personnel only.
- 4.3. Use of safety equipment and personal protective equipment according to relevant guidelines.
- 4.4. Procedure document **3-point Lap and Shoulder Belt Function** is designed as a training document. If applicable, training videos are available upon request. Training is supported by Kiel NA. Please call 574-327-2050 or email [customerservice@kielna.com](mailto:customerservice@kielna.com) to request additional materials