

### **INTRAAX & HT SHOCK ABSORBER LIMIT STRAPS**

#### **INTRODUCTION**

This bulletin lists only some of the available shock absorber straps and their specifications. To find which shock absorber or strap kit suits a particular suspension, refer to the correct suspension parts list for the suspension, all of which are available on our website. For example, if the suspension is an INTRAAX® top mount AAT, then search for AAT parts on the [Hendrickson Asia Pacific](#) website.

Shock absorber and shock strap installation details can be found in the Shock Absorber section of the Hendrickson Trailer Maintenance Manual [97117-161](#).

#### **SHOCK STRAP INSTALLATION**

1. Prior to installation of shock absorber straps, the following pre-requisites should be observed:
  - a. Ride height should be checked and adjusted if required.
  - b. Trailer should be at kerb weight and on a firm level surface.
2. To prevent damage to shock absorber straps, the suspension should be lowered (dumped) in the following applications:
  - a. On tip over axle tipper applications, especially for trailers that perform short trips and frequent tipping.
  - b. Aggregate or grain tipper applications.
  - c. On applications where loads are frequently applied and removed e.g. containers (Skel trailers).
3. Shock absorber rebound limit straps are designed to prevent over extension of the shock absorber in light to medium applications. For more severe applications such as frequent off-road use, frequent uploading via platform lifts or tip over axle where the suspension leaves the ground during unloading, it is recommended that a Hendrickson Auxiliary Rebound Limiter (ARL) system be used.

**SHOCK STRAP KITS**

4. The Hendrickson shock absorber strap kits (shown at Figure 1) contain the following items:
- Shock Straps (refer to item 1);
  - Nylon Cable Ties (refer to item 2);
  - Clevis Brackets (refer to item 3); and
  - Technical Drawing (refer to item 4).

**Figure 1**

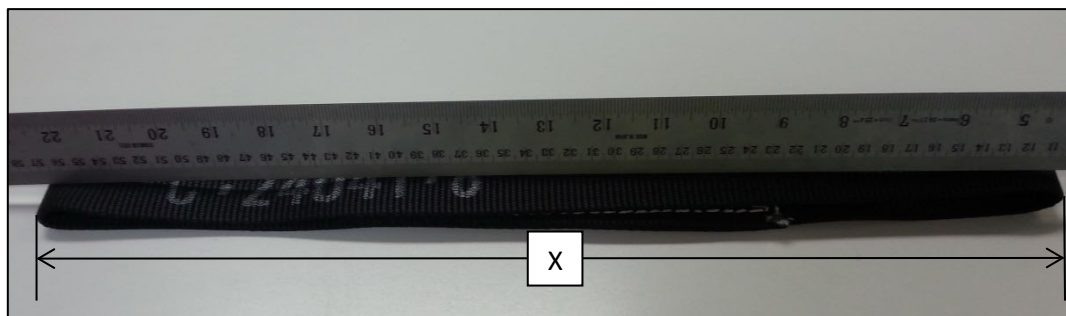
Shock Strap Kit Part No.	Item 1 Shock Strap	Item 2 Nylon Tie	Item 3 Shock Clevis	Item 4 Tech Drawing
98918-003	S-24041-1	S-11430-1	98899-001	C-14587
98918-009	S-24041-16		S-20919	N/A
C-14587L	S-24041		Not Included	C-14587
C-14587-1L	S-24041-1			
C-14587-3L	S-24041-3			
C-14587-4L	S-24041-4			
C-14587-5L	S-24041-5			
C-14587-7L	S-24041-7		S-20919	C-23086
C-14587-8L	S-24041-8			
S-23086-2	S-24041-8			
S-23086-4	S-24041-10			
S-23086-5	S-24041-11			
S-23086-6	S-24041-3			
S-23086-8	S-24041-14			
S-23086-10	S-24041-18			

**SHOCK STRAP DIMENSIONS**

5. To measure shock strap length, the strap must be pressed onto a flat surface with a steel ruler or similar, then measured from end to end, refer to dimension X in Figure 2.

**NOTE 1:** All dimensions listed below are  $\pm 3\text{mm}$ .

**NOTE 2:** The purpose of the table below is to assist operators with part number identification, in cases where the part number on an existing shock absorber strap is illegible and, the shock absorber installed is unknown.



**Figure 2**

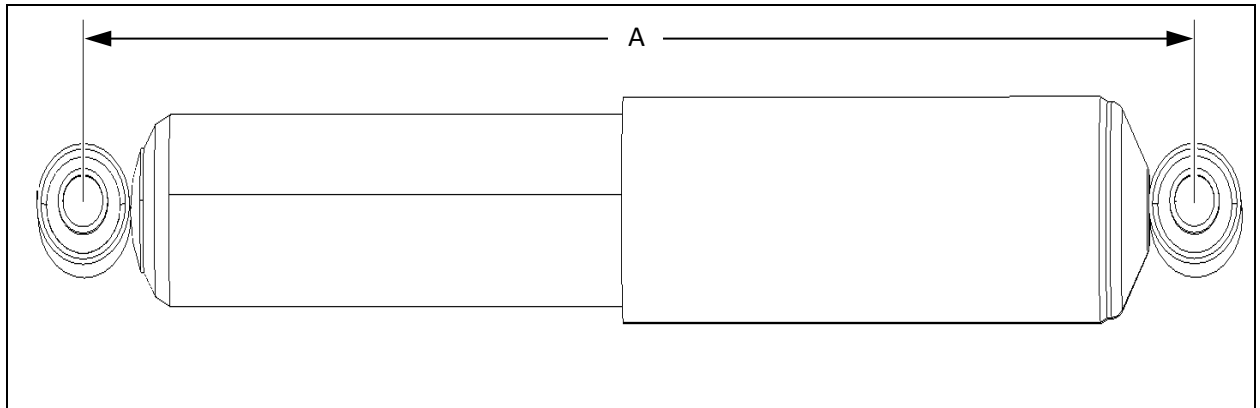
Shock Strap Part No.	Shock Strap Length (mm)
S-24041	730
S-24041-1	461
S-24041-2	556
S-24041-3	525
S-24041-4	662
S-24041-5	603
S-24041-7	705
S-24041-8	473
S-24041-10	395
S-24041-11	430
S-24041-12	510
S-24041-14	405
S-24041-16	480
S-24041-18	382

**SHOCK STRAP APPLICATIONS**

6. Shock absorber strap application is determined by the extended, compressed and strap restricted length of the shock absorber. All shock absorber dimensions are measured between the centres of the mounting eyes, refer to dimension A in Figure 3.

**NOTE 1:** All dimensions listed below are  $\pm 3\text{mm}$  unless otherwise indicated.

**NOTE 2:** Shock restricted length is the maximum shock extension possible with strap fitted.



**Figure 3**

Shock Absorber Part No.	Shock Extended Length (mm)	Shock Compressed Length (mm)	Shock Restricted Length (mm)	Shock Strap Part No.	Shock Strap Kit
98583-010	367.9	263.9	337	S-24041-14	S-23086-8
98583-011	447.0	301.0	410	S-24041-16	98918-009
A-20002	445.5	295.4	410	S-24041-16	98918-009
A-2218	609.9	377.2	540	S-24041-5	C-14587-5
S-20889	444.2	297.4	410	S-24041-16	98918-009
S-21699	441.2	298.2	410	S-24041-16	98918-009
S-2212	514.4	329.4	464	S-24041-3	C-14587-3L or S-23086-6
S-23316	513.8	332.2	464	S-24041-3	C-14587-3L or S-23086-6
S-23566	445.5	295.4	410	S-24041-16	98918-009
S-23649	407.4	273.3	365	S-24041-11	S-23086-5
S-23651	369.3	254.3	327	S-24041-10	S-23086-4
S-23743	402.6	271.8	365	S-24041-11	S-23086-5
S-23744	335.8	240.0	311	S-24041-18	S-23086-10
S-24023	444.2	297.4	410	S-24041-16	98918-009
S-24579	367.8	256.1	337	S-24041-14	S-23086-8
S-25436	627.9	392.4	603	S-24041-4	C-14587-4L
S-25437	729.0	443.2	670	S-24041	C-14587L
S-25512	678.7	417.8	640	S-24041-7	C-14587-7L
S-25515	494.5	322.6	464	S-24041-3	C-14587-3L or S-23086-6

**Revisions Table**

Date	Rev	Page	Description
Feb-2025	F	All	Minor update and correction.

Information contained in this literature was accurate at the time of publication, Product changes may have been made after the publication date that are not reflected here.



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