

# HST5

## Front suspension package

### INSTALLATION INSTRUCTIONS

- a) Assemble frame bracket by welding items #1 & #2 together keeping in mind the following:
  - 1) Plate #2 should be positioned under bracket #1 to allow the Aeon spring to rest directly over the leaf spring
  - 2) Bracket #1 will be bolted to the frame using existing holes where possible to ensure that the distance from the bottom of plate #2 to the top of leaf spring is 6-3/4 inches. Adjust accordingly with the use of spacers. (Diagram A)
- b) With vehicle unloaded, mount bracket to frame using at least three 1/2" Gr.8 bolts.
- c) Raise vehicle to install remainder of Timbren assembly.
- d) Lower vehicle.

#### NOTES:

Countersunk bolt #3 will need to be tack welded into place prior to welding items #1 & #2.

If necessary, drill to enlarge holes in frame to 9/16" diameter.

Position of Aeon spring assembly must avoid interference with shock absorbers & U-bolt pad at all levels of deflection.

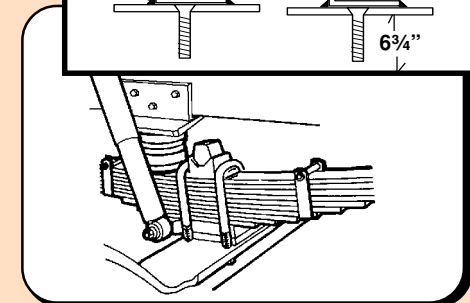
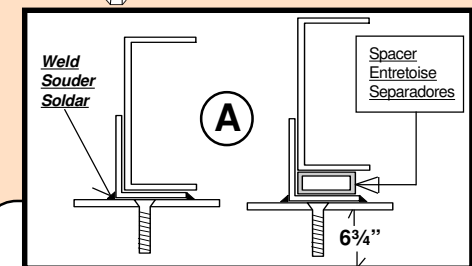
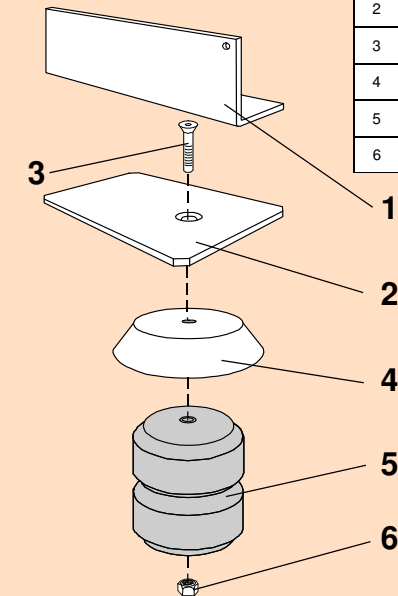
#### SAFETY CAUTIONS

Always refer to and follow the vehicle manufacturer's guidelines when welding or drilling during installation of this kit.

*Do not exceed vehicle manufacturer's recommended axle weight rating. Check for AEON® interference with vehicle components - Under load AEON® will "expand" in diameter.*

Ref. = Reference  
Part = Part #.  
Qty. = Quantity

Ref	Part	Qty
1	K51143-005	1
2	K52139-005	1
3	F12106-253	1
4	A16040	1
5	A00560-75C70	1
6	F31005-250	1



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PART NUMBER	DESCRIPTION	QTY	LOCATION
<b>F31005-250</b>	NYLOCK LOCKNUT 1/2 UNC GR 5 Z	<b>1</b>	<b>G1B</b>
<b>F12106-253</b>	FHSCS 1/2 x 2-1/2 UNC GR 5 B	<b>1</b>	<b>J2C</b>
<b>A00560-75C70</b>	Hollow Rubber Spring	<b>1</b>	<b>C12A</b>
<b>K51143-005</b>	FORMED PLATE 1/4 x 7 x 9 PAINTED	<b>1</b>	<b>D4D</b>
<b>K52139-005</b>	TOP PLATE 3/8 x 6 x 7 PAINTED	<b>1</b>	<b>D4B</b>
<b>A16040</b>	STEEL CUP 6-15/16 od x 17/32 id x 1-5/8" deep	<b>1</b>	<b>D21B</b>
<b>B90209</b>	12 x 7 x 6-1/2 Carton	<b>1</b>	<b>A6A</b>
<b>B10100</b>	NEWSPRINT 18" ROLL	<b>1</b>	
<b>B00029-010</b>	BARCODE LABEL FOR KIT	<b>1</b>	

### Clearance Instructions:

Rear SES Kits for Pick-Ups and Vans should have a 1/2" to 1-1/2" gap between the rubber spring and contact point when empty.

A partial load, or vehicle accessories will reduce or eliminate the gap.

Front SES kits are usually in full contact.

Medium and Heavy-Duty Trucks, Trailers and Motorhomes will be in constant contact, and have no gap.