

70-80

35-45

35-45

20-30

1/2-13

3/8-16

3/8-16

1/2-13

STINGER MTG. BOLTS

STINGER AIR LINE BRACKET

AIR TANK BRACKET BOLTS

AIR ASSIST CHAMBER JAM NUT

is confidential. It is loaned, to return on demand and on condition that it is not to be used directly or indirectly purpose other than the pur-

ITEMS ORDERED SEPARATELY, SHIPPED LOOSE

1. SPRAY GUARD MOUNTING ANGLE KIT:

P/N S-22428-2 (37" & 38" I-BEAM CENTERS) P/N S-22428-8 (43" & 44" I-BEAM CENTERS)

2. AIR TANK MOUNTING BRACKET KITS: (SEE PAGE 2)

P/N S-27742-1 FOR 1488 CU. IN. OR 2800 CU. IN. TANK, (37" & 38" I-BEAM CENTERS) P/N S-27742-2 FOR 1488 CU. IN. OR 2800 CU. IN. TANK, (43" & 44" I-BEAM CENTERS)

3. STINGER:

S-27028-1 23.75 INCH (SHOWN PAGE 2)

4. SLIDER LOCATING BAR:

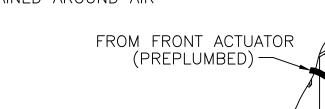
\*LOCATING BAR NOT AVAILABLE FROM HENDRICKSON\*

THE INSTALLATION OF THE SINGLE AXLE AAZL SLIDER DOES NOT CONTRIBUTE TO RESISTING LATERAL BENDING OR PARALLELOGRAMING OF THE TRAILER FRAME. A WIDESPREAD SUSPENSION CAN INDUCE THESE FORCES. THIS ACTION NEEDS TO BE CONSIDERED IN THE DESIGN OF THE TRAILER AND/OR INSTALLATION OF THE ADJACENT SUSPENSION. HENDRICKSON ENGINEERING IS AVAILABLE FOR ASSISTANCE UPON REQUEST.

- 1. SEE L-341 INTRAAX ® INSTALLATION INSTRUCTIONS FOR INFORMATION ON ASSEMBLY, WELDING PROCEDURE, AND ALIGNMENT.
- 2. SEE SERVICE MANUAL FOR INFORMATION CONCERNING MAINTENANCE PROCEDURE.
- 3. SEE L-1182 FOR HEIGHT CONTROL KIT OPTIONS.
- 4. DO NOT WELD ON AXLE TUBE.
- 5. DO NOT WELD ON SLIDER BOX .
- 6. MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING PATENTS: OTHER PATENTS PENDING U.S. PATENT NOS. - 5.366.237 - 4.166.640
- DO NOT ROUTE ITEMS THROUGH THIS AREA FOR 9.0 INCH AND LOWER RIDE HEIGHTS DUE TO MINIMAL BEAM TO FRAME CLEARANCE.
- SEE AKSS0001 FOR HENDRICKSON RECOMMENDED PLUMBING PROCEDURE.

CLEARANCE SPECIFICATIONS:

- a) 1.0 INCH MINIMUM CLEARANCE REQUIRED BETWEEN TOP OF TIRE AND BOTTOM OF TRAILER STRUCTURE WHEN AXLE IS AT FULL
- b) 2.0 INCHES MINIMUM CLEARANCE REQUIRED BETWEEN INSIDE OF TIRE AND TRAILER STRUCTURE FOR TIRE AND LATERAL MOVEMENT.
- c) .75 INCH MINIMUM CLEARANCE MUST BE MAINTAINED AROUND AIR SPRING WHEN IT IS AT MAXIMUM DIAMETER.



TO EMERGENCY BRAKE SERVICE LINE

I-BEAM	SLIDER/ SUSPENSION WIDTH DIMENSIONS (INCHES)									
CENTERS	Α	В	C	D	Ε	F	Μ	Ν	W	
<i>37</i> "	71.5	35.0	46.50	36.61	36.25	31.63	45.50	26.63	43.13	
<i>38</i> "	71.5	35.0	46.50	37.61	37.25	32.63	46.50	27.63	44.13	
43"	77.5	41.0	52.50	42.61	42.25	37.63	51.50	32.63	49.13	
44"	77.5	41.0	52.50	43.61	43.25	38.63	52.50	33.63	50.13	

∟ø13.4 MAX.

AIR SPRING

(23.6)

IN-IN ÄIR SPRINGS

∠SUPPLY LINE FROM PRESSURE PROTECTION VALVE

• • •

I-BEAM CENTERS D W/SHIMS-E W/O SHIMS -CENTER TO CENTER FRAME BRACKETS INSIDE TO INSIDE OF TIRES (MIN.) (AXLE TRACK WIDTH)

 $\overline{\hspace{0.1in}}$  54.0 (OVERALL SLIDER LENGTH)-PLUMBING DETAIL – 42.0 (LOCK PIN SPACING)– ø1.63 TYP.  $\Gamma T$  (P.3) (PIN DIA.) |(P.3)|• • 🗨 • • 6.06 ٠., — JOUNCE B.C. RIDE HEIGHT 2.75 -"H" AT L REBOUND ±.38 ——— AXLE ALIGNMENT RIDE HEIGHT

- PORTS MUST BE ORIENTED INWARD

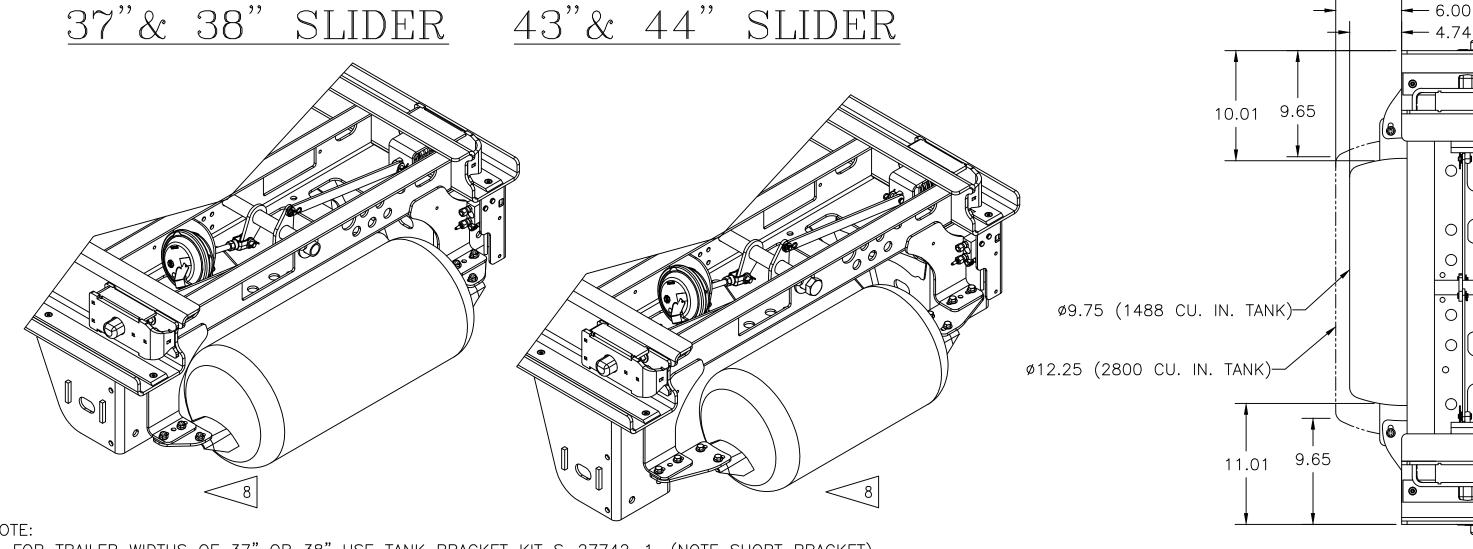
GROUND C	CLEARANCE
TO CALCULATE GR SUBTRACT "H" FROM	OUND CLEARANCE, LOADED TIRE RADIU
RIDE HEIGHT	"J"
6.5	9.75
7.5	9.83
8.0	9.88
9.0	10.04
12.0	9.95

\*DWG PART NUMBER REVISION MUST MATCH REVISION OF DOCUMENT | DWG D-27785 | 15

HARARESON TRAILER COMMERCIAL VEHICLE SYSTEMS K.GALIGHER 1-30-03 THIS DRAWING IS THE CONFIDENTIAL PROPERTY OF

AAZL INSTALLATION DRAWING SINGLE SLIDER

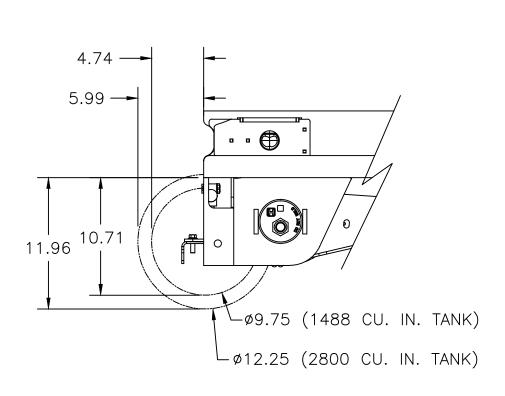
PRODUCTION SCALE .125=1.000 SIZE D PAGE .1 OF 3 D-27785



- 1. FOR TRAILER WIDTHS OF 37" OR 38" USE TANK BRACKET KIT S-27742-1. (NOTE SHORT BRACKET) FOR TRAILER WIDTHS OF 43" OR 44" USE TANK BRACKET KIT S-27742-2. (NOTE LONG BRACKET) (BOTH -1 AND -2 KITS WILL WORK FOR EITHER 1488 CU. IN. OR 2800 CU. IN. TANKS)
- 2. KITS ARE DESIGNED FOR 27.50" MTG. CENTERS FOR A 1488 CU. IN. TANK AND 29.50" MTG. CENTERS FOR A 2800 CU. IN. TANK.
- 3. THE 1488 CU. IN. TANK IS SHOWN ABOVE WITH RESPECT TO TRAILER WIDTHS. OTHER HOLES PROVIDED IN THE BRACKETS WILL ACCOMMODATE THE USE OF A 2800 CU. IN. TANK BUT GRAPHICALLY WILL LOOK DIFFERENT THAN ABOVE.
- 4. WITH TANK MOUNTED TO THE FRONT OF THE SLIDER BOX, A MINIMUM OF 52" AXLE SPACING IS REQUIRED WHEN BUTTED UP AGAINST THE REAR OF A STATIONARY (HENDRICKSON AAL) SUSPENSION.

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# AIR TANK INSTALLATION



# TRAILER FRAME REQUIREMENTS

## (OUTBOARD SHOWN). 2.31 TYP. 6.00 -TYP. 2.19 TYP. FULL RADIUS I-BEAM FLANGE (REF) -SCALE: .25=1.00 RECOMMENDED I-BEAM POSITIONING HOLE DESIGN NOTE: HORIZONTAL DIMENSIONS MUST BE MAINTAINED AS SHOWN. VERTICAL DIMENSIONS SHOWN ARE OPTIONAL, BUT ARE RECOMMENDED FOR THE FOLLOWING REASONS: A) ALLOWS HOLE POSITION ON WEB TO BE IDENTICAL FOR ANY FLANGE THICKNESS FROM 3/8" TO 3/4". B) ALLOWS DIRECT CONTACT BETWEEN I-BEAM FLANGE AND BOTTOM SIDE OF OUTER LOCK PIN CAGES WHEN TRAILER IS LIFTED BY FRAME. - SEE VIEW Z FORWARD TRAVEL STOP AT REAR TRAVEL STOP AT

STINGER INSTALLATION

. .

∠ I−BEAM WEB (REF)

REAR OF SLIDER TRAVEL

PART NO. \* REV

DWG D-27785 15

.125=1.000

PRODUCTION

D 2 OF 3

D-27785

RANGE (DESIGN OPTIONAL)

AAZL INSTALLATION DRAWING

SINGLE SLIDER

HEAD OF BOLT MUST BE INSIDE CROSSMEMBER AS

- HOLE REINFORCEMENT PLATE FOR I-BEAM WEB.

MAY BE INBOARD OR OUTBOARD

DESIGN OPTIONAL

(SHOWN 3.50 WIDE)

(6.61)

۰ 。

-(23.75)-

۰.,

BE INSTALLED IN THE DOWNWARD

DIRECTION AS SHOWN TO PROVIDE

CLEARANCE FOR FORWARD TRAVEL STOP.

**→** 1.83 TYP.

∠AIR LINE BRACKET MUST

FRONT OF SLIDER TRAVEL RANGE

K.GALIGHER 1-30-03

T.HESS HENDRICKSON

2/17/03 P. BILLMAN

THIS DRAWING IS

THE CONFIDENTIAL

(DESIGN OPTIONAL)

14 32211 JLW 02-08-19
13 23851 JLW 01/28/15 CHK'D BY

12 19695 CDR 6/24/11 APP'D BY:

ANGULAR: ± 0.5' 3RD ANGLE PROJECTION

DIMENSIONS ADHERE TO ANSI Y14.5M-1982 REV. ECN NO. BY

### PIN CAGE PLACEMENT

1. PIN CAGES HAVE A THICK SPACER PLATE AND A THIN SPACER PLATE:

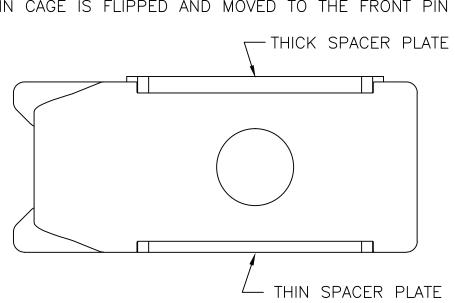
THE THICK SPACER PLATE MUST BE DOWN WHEN BOTTOM FLANGE OF TRAILER I-BEAM IS .500 THK. OR LESS.

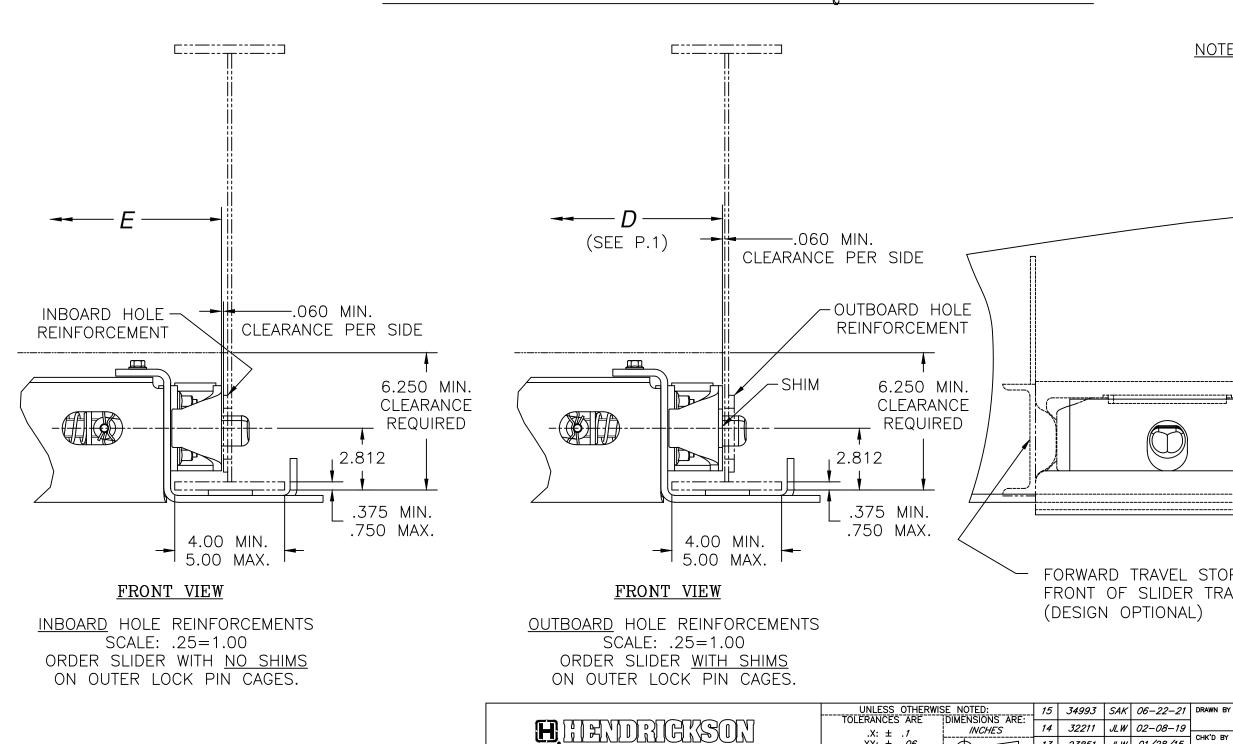
THE THIN SPACER PLATE MUST BE DOWN WHEN BOTTOM FLANGE OF TRAILER I-BEAM IS GREATER THAN .500 THK. BUT DOES NOT EXCEED .750 THK.

2. IF NEEDED AND PIN CAGES NEED FLIPPED.

WHEN GOING FROM ONE THICKNESS TO THE OTHER, THE FRONT PIN CAGE IS FLIP AND MOVED TO THE REAR PIN CAGE LOCATION.

THE REAR PIN CAGE IS FLIPPED AND MOVED TO THE FRONT PIN CAGE LOCATION.





TRAILER COMMERCIAL VEHICLE SYSTEMS

				DIMENSION FROM PAGE 1					
RIDE HEIGHT	JOUNCE	TEBOUND	BUMPER CONTACT	T	Н	X	<b>J</b>	<b>R</b>	** SUSPENSION WEIGHT (LB) (15)
6.5	2.0	4.6	1.6	.38	4.5	19.4	4.2	11.0	265.66
7.5	3.0	3.6	2.6	.38	4.5	19.3	4.2	11.0	265.66
8.0	3.5	5.3	3.1	.38	4.5	19.2	4.2	13.2	265.66
9.0	4.5	4.3	4.1	.38	4.5	19.0	4.2	13.2	265.66
12.0	4.9	4.9	4.5	.38	8.0	19.1	6.8	16.8	270.66

*** AXLE WEIGHT (LB) (15)								
AXLE WALL STAND.						D		
I-BEAM CE	37"	&	38"	43"	&	44"		
SPINDLE	HN	22	9.	89	23	6.	99	
TYPE	HP	24	2.	52	24	9.	05	

* SLIDER BOX WEIGHT (LB)								
RIDE	I-BEAM CENTERS							
HEIGHT	37"	38"	43"	44"				
6.5								
7.5	7 <i>11 11</i>	346.62	357 61	359.83				
8.0	J44.44	] 340.02	] 337.04	009.00				
9.0								
12.0	357.62	359.80	370.82	373.01				

### NOTES:

- 1. TO OBTAIN TOTAL SYSTEM WEIGHT, ADD ONE ITEM EACH FROM SLIDER BOX, SUSPENSION & AXLE WEIGHT TABLES, PLUS ALL APPLICABLE OPTION WEIGHTS FROM OPTION WEIGHT TABLE.
- 2. CONTACT HENDRICKSON FOR ALLOWABLE RIDE HEIGHT RANGES.



JOUNCE AND REBOUND DIMENSIONS CHANGE AS THE RIDE HEIGHT CHANGES FROM THE NOMINAL POSITION.



DIMENSIONS "J" & "R" WILL REMAIN CONSTANT REGARDLESS OF RIDE HEIGHT VARIATION FROM NOMINAL POSITION.

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- \* BOX WEIGHT INCLUDES: SLIDER BOX WELDMENT WITH FRAME BRACKETS, LOCK PINS AND ALL PIN PULL COMPONENTS (INCLUDING ACTUATOR VALVE, FITTINGS, ETC.) AND NO SHIMS (FOR TRAILERS WITH INTERNAL WEB REINFORCEMENT AT LOCK PIN HOLES).
- \*\* SUSPENSION WEIGHT INCLUDES: BEAMS, BUSHINGS, AXLE WRAPS, PIVOT CONNECTION COMPONENTS, AIR SPRING COMPONENTS AND SHOCK ABSORBER COMPONENTS. WEIGHT IS TOTAL FOR ONE SUSPENSION.
- \*\*\* AXLE WEIGHT INCLUDES: AXLE TUBE, SPINDLES, SPIDERS, STANDARD 16.5" X 7" BRAKE COMPONENTS, AND AXLE NUT KIT (BRAKE CHAMBERS AND SLACK ADJUSTERS NOT INCLUDED). WEIGHT IS TOTAL FOR ONE AXLE.

\*\*\*\* OPTION WEIGHT TABLE IS NOT ALL—INCLUSIVE; MANY ADDITIONAL OPTIONS ARE AVAILABLE. CONTACT HENDRICKSON ENGINEERING FOR WEIGHTS OF OPTIONS NOT LISTED IN CHART.

**** OPTION WEIGHT ADDITION (LB)							
	I-BEAM CENTERS						
OPTIONAL COMPONENT	37" & 38"	43" & 44"					
SHIMS ON BOX (FOR EXTERNAL WEB HOLE REINFORCEMENT)	5.72						
16.5" X 7" HXS BRAKES	4.04						
16.5" X 8.625" HXS BRAKES	15	5.60					
EXTENDED SERVICE/HIGH-DAMPING SHOCKS	2.	00					
LOW - PRESSURE AIR SPRINGS	1.	20					
SEALED CLAMP-ON DUST SHIELDS	1 4	1.74					
SHOCK STRAPS	.84						
HALDEX BRAKE CHAMBERS (STD. STROKE)	39.98						
HALDEX BRAKE CHAMBERS (LONG STROKE)	43.36						
HALDEX BRAKE CHAMBERS (LONG STROKE, EXTENDED WARRANTY)	43.62						
HALDEX SLACK ADJUSTERS (5.5"OR 6.0" LG.)	14.04						
AKH-235-3 HCV KIT (BOLTED LINK)	2.86						
STINGER KIT (23.75" LG)	10	0.02					
MUD FLAP MTG. ANGLE KIT	23.80	25.30					
AIR TANK BRACKET KIT (2800 C.I. TANK)  AIR TANK BRACKET KIT (1488 C.I. TANK)	2.26	3.24					

P PRODUCTION

.25=1.00 | SIZE D | PAGE 3 OF 3

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