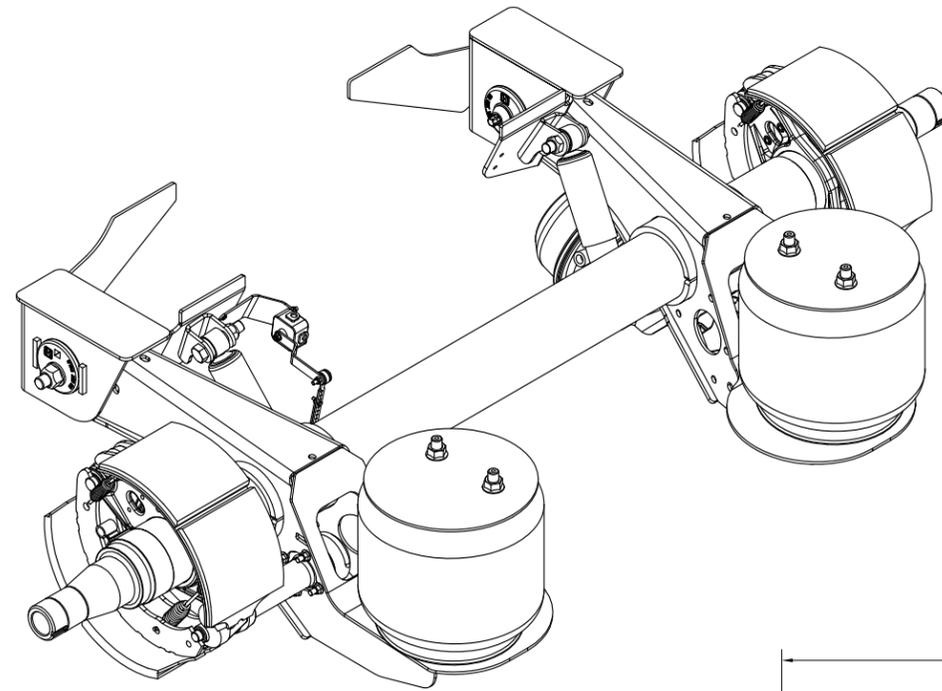


IMPORTANT !
BOLT KIT INCLUDES THREE HARDENED WASHERS PER SHOCK WHICH MUST BE POSITIONED AS SHOWN.

THESE WASHERS ARE NON-STANDARD WASHERS WITH TIGHTER TOLERANCED HOLES, DO NOT SUBSTITUTE STANDARD WASHERS FOR THESE PARTS.

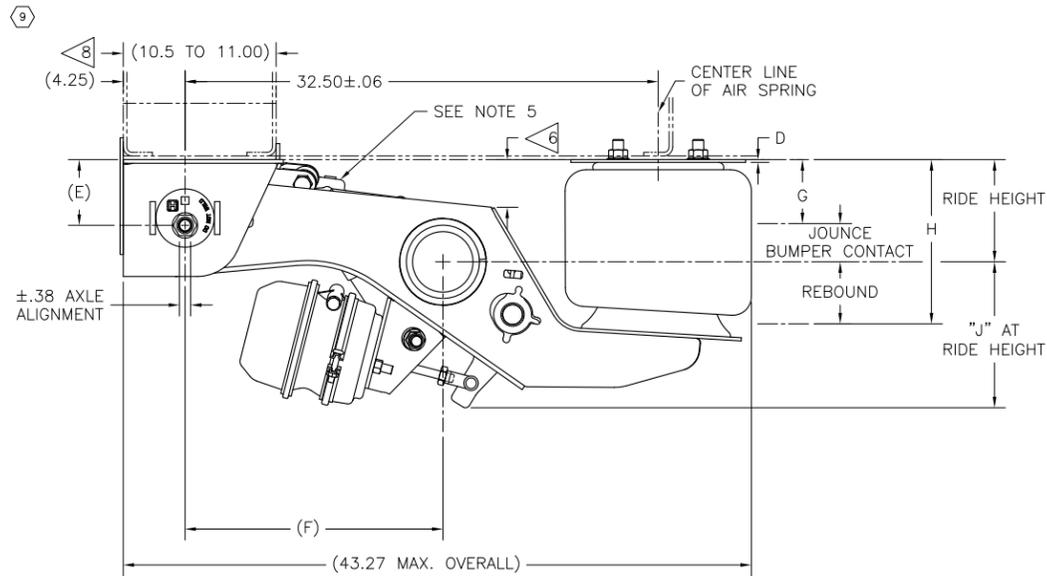
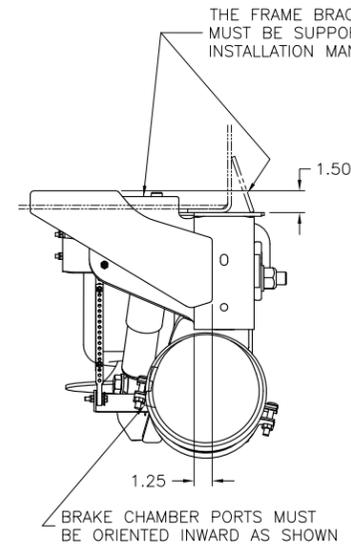
O.E.M. INSTALLED SHOCK BOLT KIT



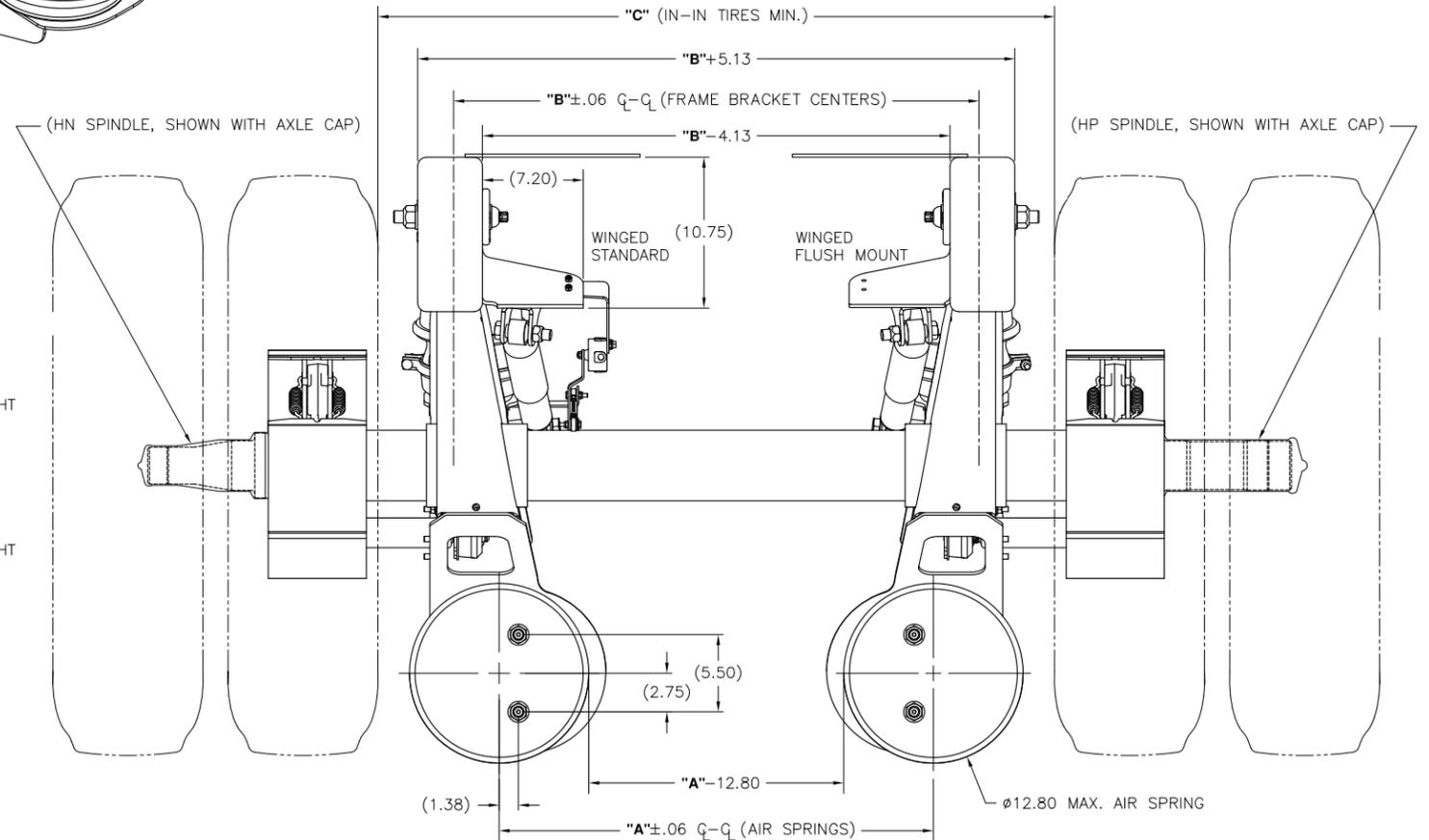
- NOTES:**
- SEE L1073 INTRAAX® INSTALLATION INSTRUCTIONS FOR INFORMATION ON ASSEMBLY, WELDING PROCEDURE, AND ALIGNMENT.
 - SEE SERVICE MANUAL FOR INFORMATION CONCERNING MAINTENANCE PROCEDURE.
 - MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING PATENTS: OTHER PATENTS PENDING U.S. PATENT NOS. - 5,366,237 - 4,166,640
 - REQUIRED CROSSMEMBER LOCATIONS ARE SHOWN. ACTUAL SIZE AND SHAPE MAY VARY WITH TRAILER DESIGN. IT IS THE RESPONSIBILITY OF THE SUSPENSION INSTALLER TO ENSURE STRUCTURAL ADEQUACY OF TRAILER FRAME AND CROSSMEMBERS.
 - SEE L1182 FOR HEIGHT CONTROL KIT OPTIONS.
 - DO NOT ROUTE ITEMS THROUGH THIS AREA FOR 7 INCH AND LOWER RIDE HEIGHTS DUE TO MINIMAL BEAM TO FRAME CLEARANCE.
 - AANLS 20K SUSPENSION DESIGNED FOR 265-70R19.5 TIRES AND LARGER. CONSULT HENDRICKSON ENGINEERING FOR USE WITH SMALLER TIRES. SEE D-29431 FOR DIMENSIONS AND CROSSMEMBER LOCATIONS.

CLEARANCE SPECIFICATIONS:

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



SEE PAGE 2 FOR THE TABULATED DIMENSIONS SHOWN ABOVE



TORQUE SPECIFICATIONS		
DESCRIPTION	SIZE	TORQUE (FT-LB)
SHOCK BOLTS	3/4-10	210-235
AIR SPRING NUTS, UPPER	3/4-16	80-100
AIR SPRING NUT, LOWER	1/2-13	55-60
S-CAM BEARING BOLTS	3/8-16	35-45
BRAKE CHAMBER MNTG. NUTS	5/8-11	100-110
BRAKE DUST SHIELD BOLTS	5/16-18	160-180 IN-LB

GROUND CLEARANCE	
TO CALCULATE GROUND CLEARANCE, SUBTRACT "J" FROM LOADED TIRE RADIUS.	
RIDE HEIGHT	"J"
6.25	9.75
7.0	9.83
9.0	9.88
12.0	10.04

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MODEL	AANLS 20K				
	71.5	73.0	75.5	77.5	83.5
TRACK WIDTH (IN)	71.5	73.0	75.5	77.5	83.5
DIMENSION "A" (IN) (STANDARD)	31.00	32.50	35.00	37.00	43.00
DIMENSION "A" (IN) (NARROW)	27.50	29.00	31.50	33.50	39.50
DIMENSION "B" (IN)	37.50	39.00	41.50	43.50	49.50
DIMENSION "C" (IN)	46.50	48.00	50.50	52.50	58.50



UNLESS OTHERWISE NOTED: TOLERANCES ARE: .XX ±, .XXX ±, ANGULAR: ±	DIMENSIONS ARE: INCHES, 3RD ANGLE PROJECTION	9 26085 D/D 12/9/16 8 22168 RML 5/31/13 7 21264 JMR 6/8/12 6 17079 EDH 10/2/08	DRWN BY: M. OYSTER CHK'D BY: C. ANDERSON APP'D BY: J. RAMSEY	10-18-02 11-26-02	THIS DRAWING IS THE CONFIDENTIAL PROPERTY OF HENDRICKSON
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STANDARD TRAVEL DIMENSIONS FROM PAGE 1 FOR AANLS 20K

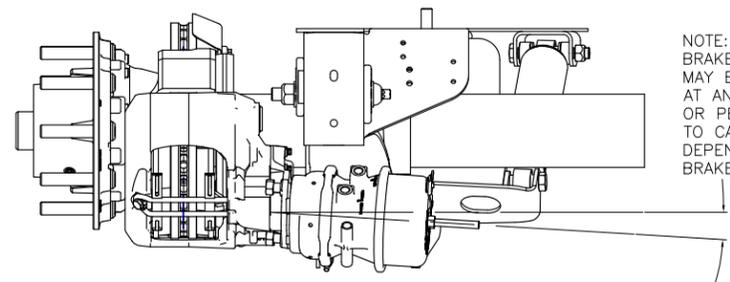
RIDE HEIGHT	JOUNCE	REBOUND W/FRONT SHOCKS	REBOUND W/REAR SHOCKS	BUMPER CONTACT	D	E	F	G	H W/FRONT SHOCKS	H W/REAR SHOCKS
WELD-ON										
STANDARD TRAVEL										
6.25	1.9	5.0	4.7	1.5	.19	4.5	17.8	4.4	11.3	10.9
7.0	2.7	4.3	4.0	2.3			17.7	4.3		
9.0	2.9	3.8	3.3	2.5	3.50	4.5	17.3	6.1	12.8	12.3
12.0	3.4	3.4	3.1	3.0	3.50	10.0	17.8	8.6	15.4	15.1

NOTES:

- SUSPENSION WEIGHT INCLUDES SUSPENSION BEAMS, AIR SPRINGS, AIR SPRING PLATES, WINGED WELD-ON FRAME BRACKETS, STANDARD SHOCK, AND AXLE WRAPS.
 - FOR AXLE WEIGHTS SEE "AXLE WEIGHT CHART" ON THIS DRAWING. AXLE WEIGHTS INCLUDE SPIDER, ABS BRACKET, SPINDLE NUT, AND BRAKE COMPONENTS (15 X 8 5/8 OR 16.5 X 7) LESS BRAKE CHAMBERS AND SLACK ADJUSTERS.
 - TOTAL WEIGHT = SUSPENSION WEIGHT + AXLE WEIGHT
 - CONTACT HENDRICKSON FOR ALLOWABLE RIDE HEIGHT RANGES.
- 5 JOUNCE AND REBOUND DIMENSIONS CHANGE AS THE RIDE HEIGHT CHANGES FROM THE NOMINAL POSITION.
6 DIMENSIONS "G" & "H" WILL REMAIN CONSTANT REGARDLESS OF RIDE HEIGHT VARIATION FROM THE NOMINAL POSITION.

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AXLE WEIGHT CHART FOR AANLS 20K (AXLE ATTACHMENT WRAP INCLUDED IN SUSPENSION WEIGHT)																				
	HN AXLE - ASSEMBLY										HP AXLE - ASSEMBLY									
AXLE TRACK	71.5	73.0	75.5	77.5	83.5	71.5	73.0	75.5	77.5	83.5										
BRAKES	15	16.5	15	16.5	15	16.5	15	16.5	15	16.5	15	16.5	15	16.5	15	16.5	15	16.5	15	16.5
AXLE WEIGHT (LB)	269	268	272	271	277	275	281	279	292	291	273	272	276	274	281	279	284	283	296	295

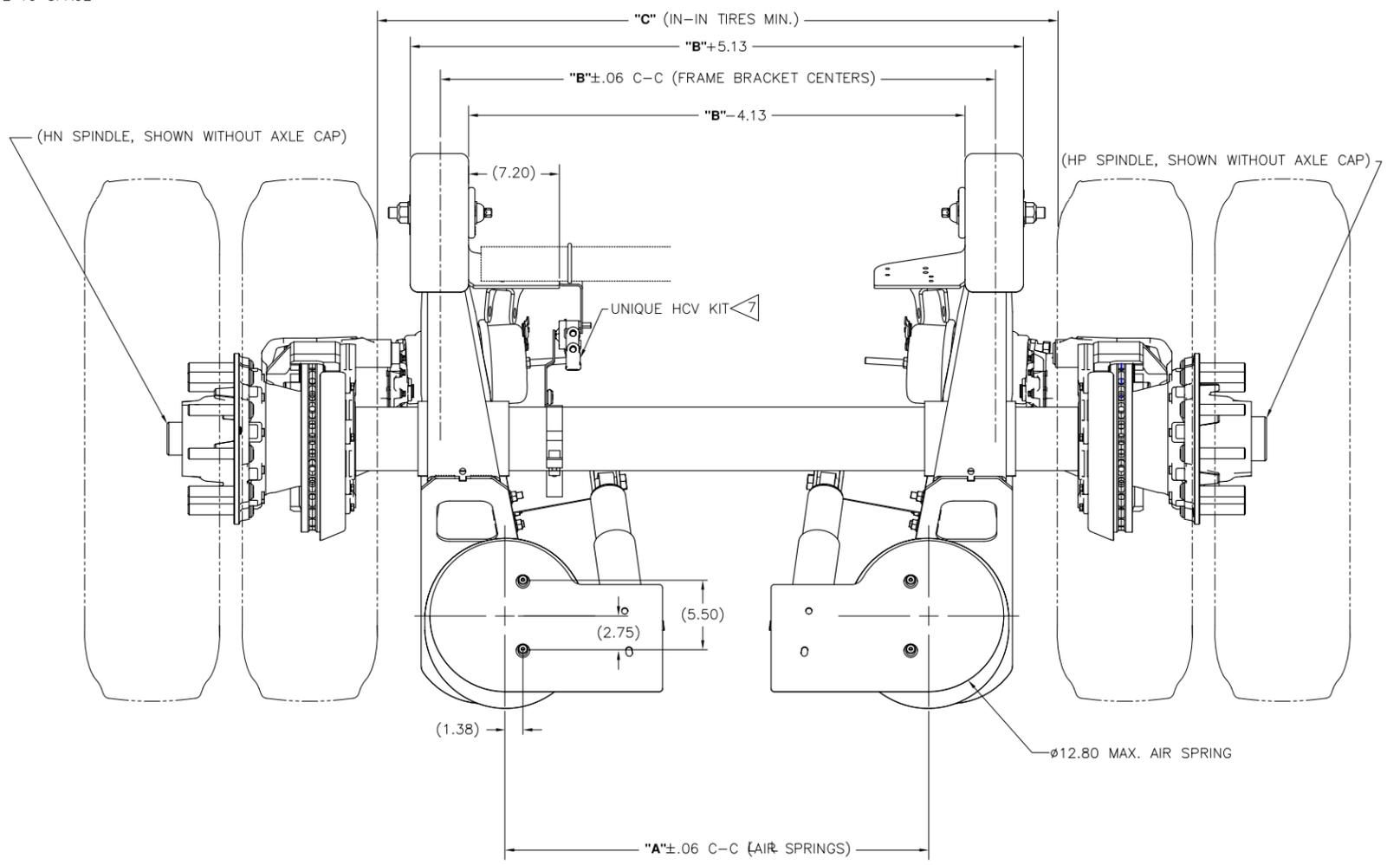
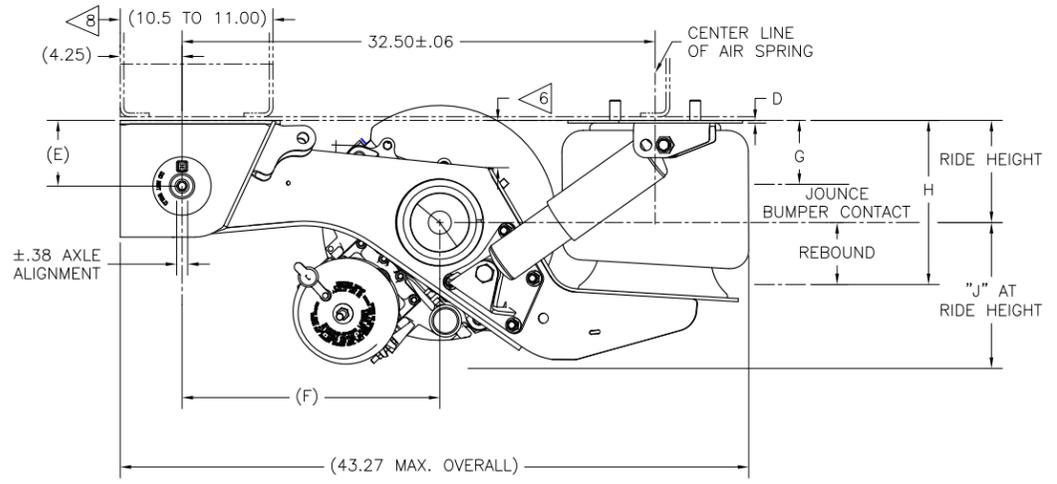
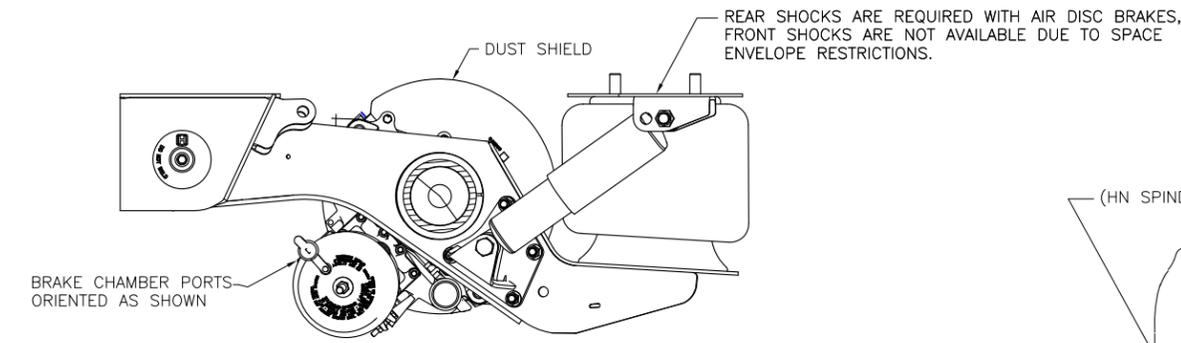


NOTE:
BRAKE CHAMBERS
MAY BE ORIENTED
AT AN ANGLE
OR PERPENDICULAR
TO CALIPER
DEPENDING ON
BRAKE MODEL

- NOTE:
1. THIS PAGE IS FOR AANLS WITH AIR DISC BRAKES OPTION.
 2. MERITOR WABCO PAN22 BRAKE CALIPERS AND GUNITE DUCTILE IRON HUBS WITH GUNITE ROTORS REPRESENTED IN GRAPHICS
 3. SEE L 1225 ADB APPLICATION GUIDE FOR INFORMATION ON HENDRICKSON'S AIR DISC BRAKE PRODUCT OFFERING AND APPLICATION REUIREMENTS.
 4. NOT ALL HUB/ROTOR OPTIONS ARE AVAILABLE WITH ALL BRAKE OPTIONS.
 5. AIR DISC BRAKES COMPATIBLTY - SEE BELOW CHART

AIR DISC BRAKE PACKAGE	SPINDLE	ROTOR/WHEEL SIZE	HUB MATERIAL	CHAMBER
HENDRICKSON MAXX22T	HN or HP	415mm / 22.5" 224.5"	Ductile Iron / DURA-LIGHT HUB	WABCO 18/24
WABCO PAN22-1	HN or HP	430mm / 22.5" 24.5"	Ductile Iron / ALUMINUM	WABCO 20/24
Knorr/Bendix ADB22X	HN or HP	430mm / 22.5" 24.5"	Ductile Iron / ALUMINUM	KNORR 18/24
WABCO PAN19	HN or HP	375mm / 19.5"	Ductile Iron	WABCO 16/24

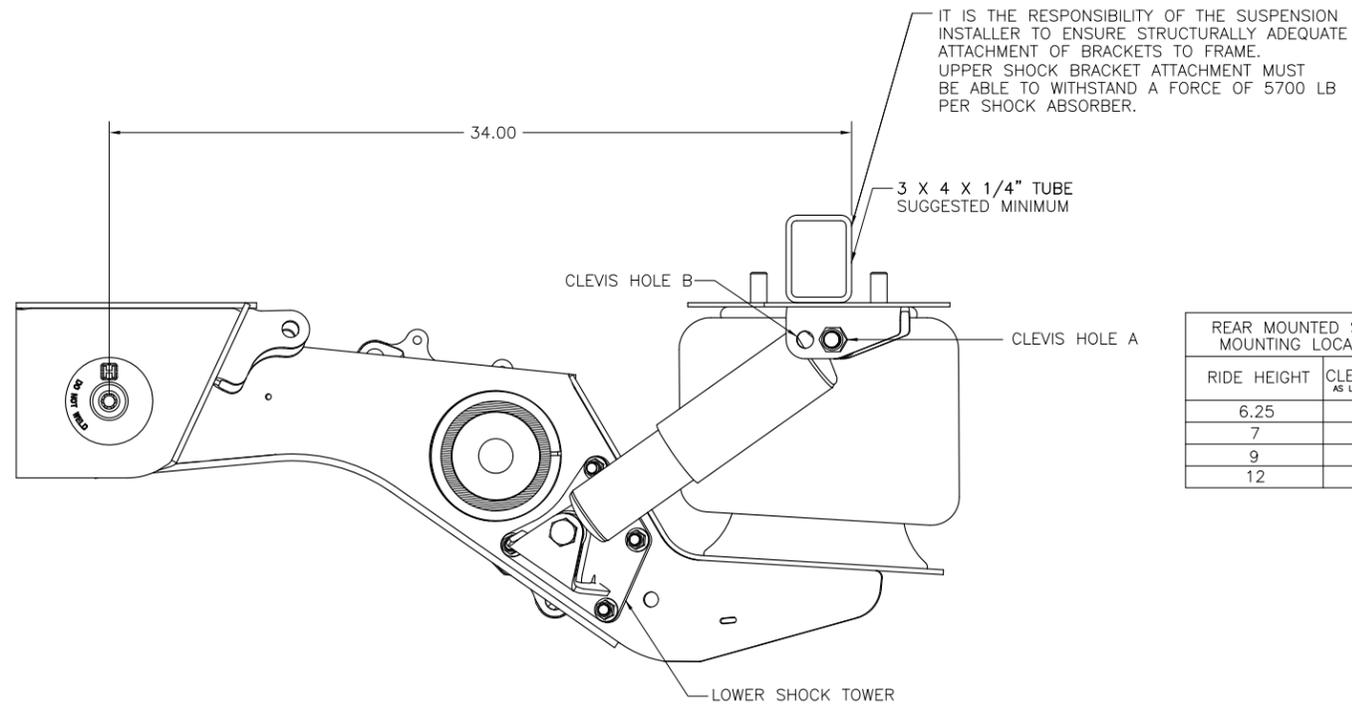
6. DO NOT ROUTE ITEMS THROUGH THIS AREA FOR 9.0 INCH AND LOWER RIDE WITH GUNITE ROTORS REPRESENTED IN GRAPHICS
7. SEE L1182 FOR HCV KITS.



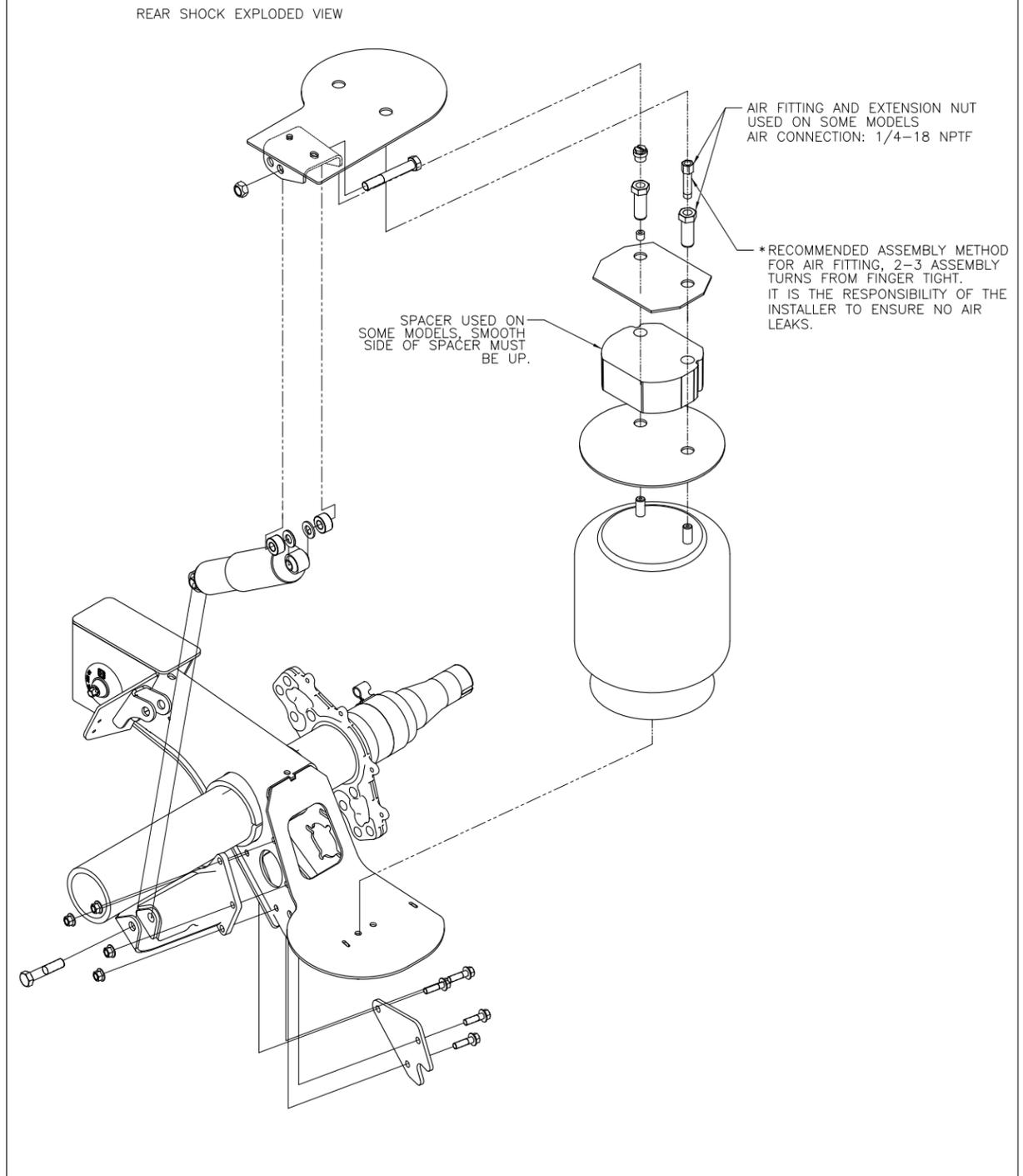
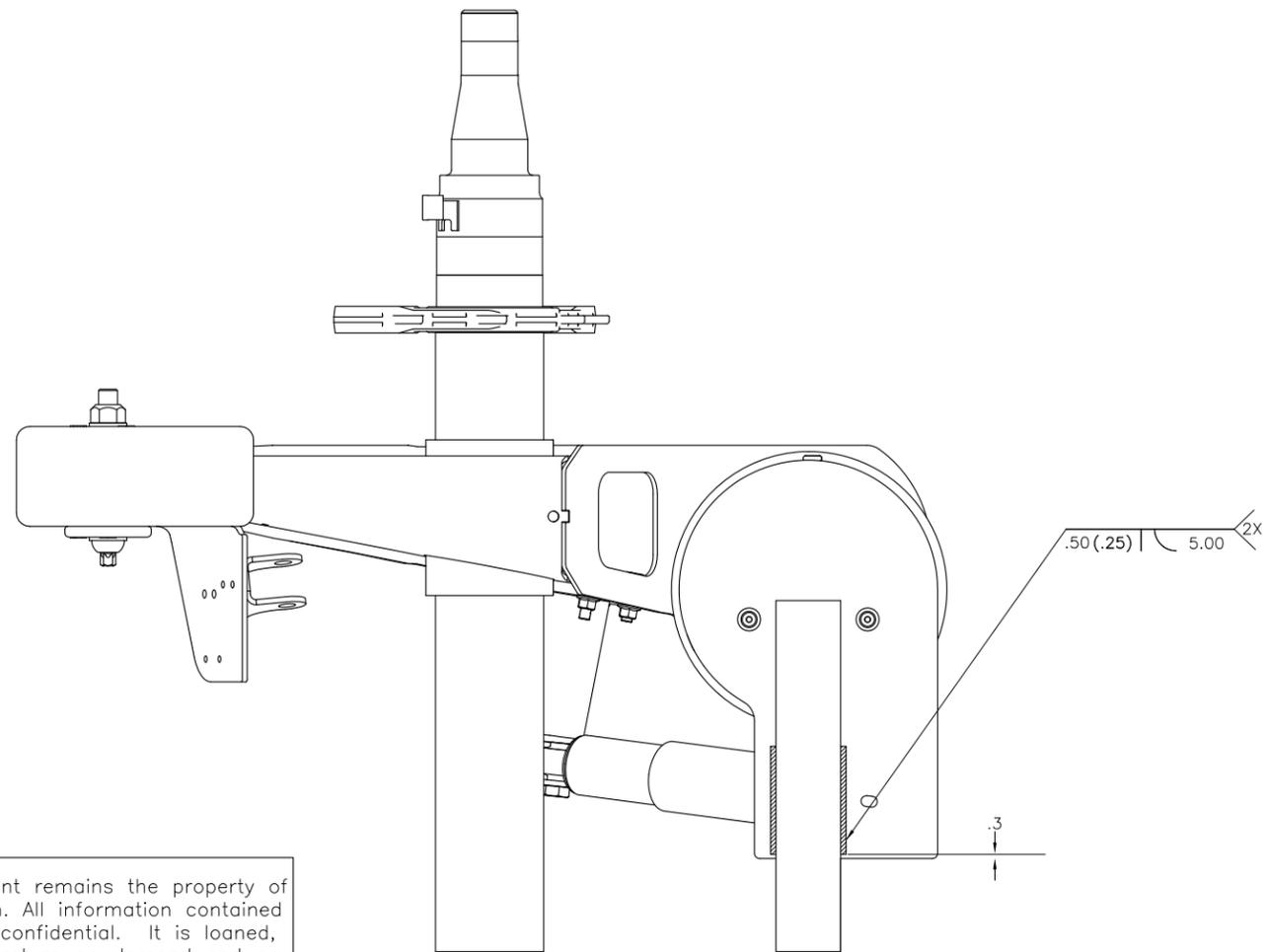
AIR DISC BRAKES ONLY

SEE PAGE 1, AND 2 FOR TABULATED DIMENSIONS AND NOTES

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REAR MOUNTED SHOCK MOUNTING LOCATION	
RISE HEIGHT	CLEVIS HOLE AS LABELED ON LEFT
6.25	A
7	A
9	B
12	A



- ASSEMBLY PROCEDURE FOR REAR MOUNTED SHOCK**
1. SET SUSPENSION TO RIDE HEIGHT.
 2. LOCATE CROSSMEMBER AS SHOWN IN THE GRAPHIC ABOVE. CROSSMEMBER MUST BE 4 X 3 X 1/4" MINIMUM TO WITHSTAND TORSION.
 3. IF NOT PRE-ASSEMBLED, BOLT LOWER SHOCK TOWER TO BEAM USING 1/2-13 FLANGE BOLTS AND LOCKING FLANGE NUTS.
 4. LOCATE THE AIR SPRING TOP PLATE AS SHOWN ON PAGE 2. WELD THE TOP PLATE TO THE CROSSMEMBER AS SHOWN IN THE GRAPHIC TO THE LEFT.
 5. BOLT TOP OF SHOCK TO UPPER BRACKET TO THE CLEVIS HOLE INDICATED FOR THE APPLICATION'S RIDE HEIGHT (SEE "REAR MOUNTED SHOCK MOUNTING LOCATION" CHART). BOLT BOTTOM OF SHOCK TO LOWER SHOCK TOWER BRACKET. TIGHTEN ALL FASTENERS TO SPECIFIED TORQUE.

TORQUE SPECIFICATIONS		
DESCRIPTION	SIZE	TORQUE (FT-LB)
SHOCK ABSORBER BOLTS	3/4-10	210-235
LOWER SHOCK TOWER BOLTS	1/2-13	100-110
AIR SPRING NUT, LOWER	1/2-13	55-60
AIR SPRING NUT, UPPER	3/4-16	80-100

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