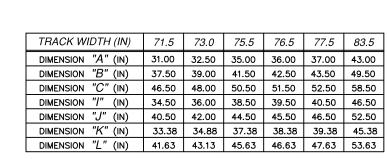
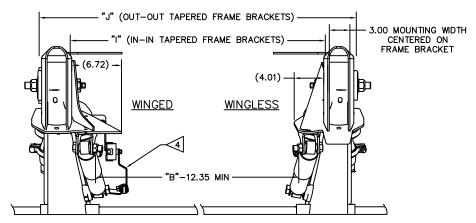
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- 1. SEE L1073 FOR INFORMATION ON ASSEMBLY, WELDING PROCEDURE, AND ALIGNMENT.
- 2. SEE SERVICE MANUAL FOR INFORMATION CONCERNING MAINTENANCE
- 3. MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING PATENTS: OTHER PATENTS PENDING U.S. PATENT NOS. 5,366,237 4,166,640
- SEE L1182 FOR HEIGHT CONTROL KIT OPTIONS.
- SEE PAGE 4 FOR FRAME BRACKET FRONT GUSSET REQUIREMENTS.
- 6 SEE D-29431 FOR DIMENSIONS AND CROSSMEMBER LOCATIONS.
- 7. SEE D-25266 FOR INSTALLATION INSTRUCTIONS ON COMPONENTS THAT ARE COMMON BETWEEN DIFFERENT INTRAAX MODELS (PIVOT CONNECTION, AIR SPRINGS, SHOCK ABSORBERS, BRAKE CHAMBERS AND SLACK ADJUSTERS).
- 8. FOR BOLT-ON MOUNTING PATTERNS, SEE DRAWING D-26651.

CLEARANCE SPECIFICATIONS:

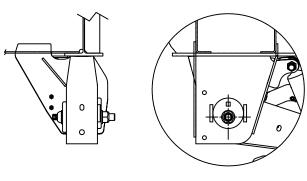
- a) 1.0 INCH MINIMUM CLEARANCE REQUIRED BETWEEN TOP OF TIRE AND BOTTOM OF TRAILER STRUCTURE WHEN AXLE IS AT FULL JOUNCE.
- b) 2.0 INCHES MINIMUM CLEARANCE REQUIRED BETWEEN INSIDE OF TIRE AND TRAILER STRUCTURE FOR LATERAL MOVEMENT.
- c) .75 INCH MINIMUM CLEARANCE MUST BE MAINTAINED AROUND AIR SPRING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





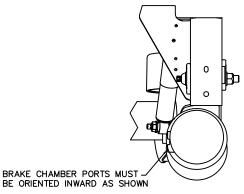
TAPERED WELD-ON FRAME BRACKETS

SHOWN WITH 10" PIVOT HEIGHT FRAME BRACKETS DIMENSIONS SHOWN APPLY FOR 12" THRU 17" RIDE HEIGHTS ONLY ALL DIMENSIONS SAME AS IN FULL TOP VIEW BELOW, EXCEPT AS NOTED



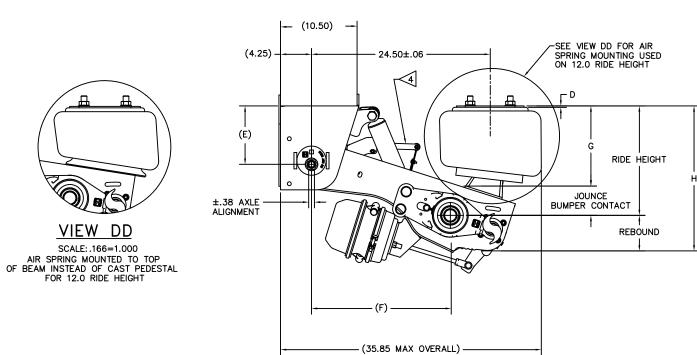
TAPERED WELD-ON FRAME BRACKET

√5 FRAME BRACKET FRONT GUSSET NOT SHOWN FOR CLARITY

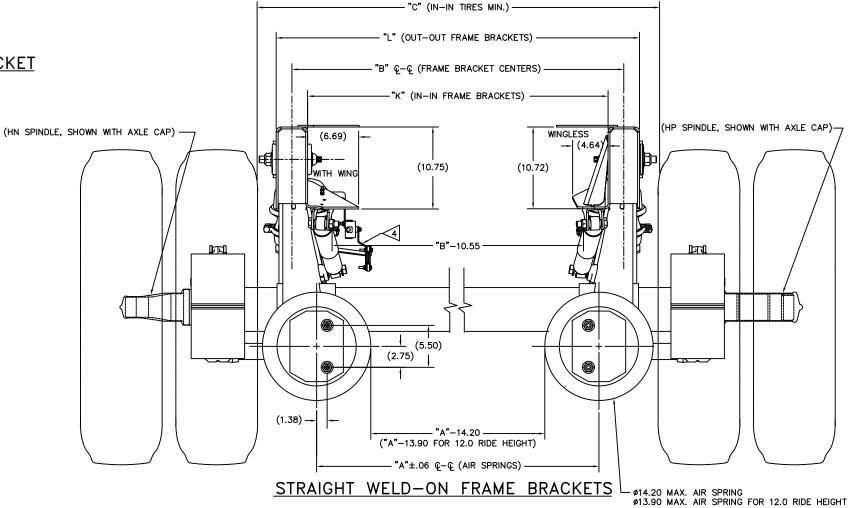


STRAIGHT WELD-ON FRAME BRACKET

FRAME BRACKET FRONT GUSSET
NOT SHOWN FOR CLARITY. SEE PAGE 2 FOR DIMENSIONS SHOWN ABOVE



WELD-ON FRAME BRACKET SEE PAGE 2 FOR THE TABULATED DIMENSIONS SHOWN ABOVE



HILLINDRICKSON TRAILER COMMERCIAL VEHICLE SYSTEMS UNLESS OTHERWISE NOTED:

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INTRAAX® AANT INSTALLATION DRAWING SCALE | SIZE | PAGE | 1 OF 4 D-28108

RIDE HT	JOUNCE	REB'D	3 BUMPER CONTACT	D	E	F	G G	H					
WELD-ON													
STANDARD TRAVEL													
12.0	3.1	4.1	2.5	.19	8.0	19.9	9.0	16.1					
13.5	3.1	5.6	2.5	.19	8.0	19.5	10.4	19.0					
14.0	3.6	5.1	3.0	.19	8.0	19.4	10.4	19.0					
15.0	3.6	4.1	3.0	.19	8.0	19.1	11.4	19.0					
16.0	3.6	4.9	3.1	.19	10.0	19.4	12.4	20.9					
17.0	3.7	3.9	3.1	1.31	10.0	19.1	13.3	20.9					
LIMITED REBOUND TRAVEL													
14.0	3.6	3.8	3.0	.19	8.0	19.4	10.4	17.7					
16.0	3.6	3.5	3.1	.19	10.0	19.4	12.4	19.5					
HIGH CONTROL TRAVEL													
13.5	2.8	6.0	2.2	.19	10.0	20.0	10.7	19.5					
14.0	3.3	5.5	2.7	.19	10.0	19.9	10.7	19.5					
15.0	3.3	4.5	2.7	.19	10.0	19.7	11.7	19.5					
16.0	3.4	5.4	2.8	2.06	12.0	19.9	12.6	21.4					
17.0	3.3	4.4	2.8	3.31	12.0	19.7	13.7	21.4					
LIMITED JOUNCE HIGH CONTROL TRAVEL													
14.0	2.8	5.5	2.2	.19	10.0	19.9	11.2	19.5					
15.0	2.6	4.5	2.1	.19	10.0	19.7	12.4	19.5					
16.0	2.9	5.4	2.3	2.06	12.0	19.9	13.1	21.4					
17.0	2.9	4.4	2.3	3.31	12.0	19.7	14.1	21.4					
ZMD													
14.0	3.3	4.5	3.0	.19	8.0	19.4	10.7	18.5					
15.0	3.3	4.7	3.0	.19	8.0	19.1	11.7	19.7					
16.0	2.9	5.4	2.6	2.06	10.0	19.4	13.1	21.4					
17.0	3.4	4.4	3.0	1.31	10.0	19.1	13.6	21.4					

RIDE HT	JOUNCE	<3 REB'D	BUMPER	D	6 E	F	G G	4 H						
	BOLT-ON													
	STANDARD TRAVEL													
12.0	_	_	_	_	_	_	_	_						
13.5	3.0	6.2	2.4	.25	8.5	19.7	10.5	19.7						
14.0	3.5	5.7	2.9	.25	8.5	19.5	10.5	19.7						
15.0	3.5	4.7	2.9	.25	8.5	19.2	11.5	19.7						
16.0	3.5	5.4	2.9	.25	10.5	19.5	12.5	21.4						
17.0	3.6	4.4	3.0	1.38	10.5	19.2	13.4	21.4						
	LIMITED REBOUND TRAVEL													
14.0	3.5	4.3	2.9	.25	8.5	19.5	10.5	18.3						
16.0	3.5	4.1	2.9	.25	10.5	19.5	12.5	20.1						
	HIGH CONTROL TRAVEL													
13.5	2.7	6.6	2.1	.25	10.5	20.1	10.8	20.1						
14.0	3.2	6.1	2.6	.25	10.5	20.0	10.8	20.1						
15.0	3.2	5.1	2.6	.25	10.5	19.8	11.8	20.1						
16.0	3.3	6.0	2.7	2.13	12.5	20.0	12.7	22.0						
17.0	3.2	5.0	2.6	3.38	12.5	19.8	13.8	22.0						
	ZMD													
14.0	3.2	5.1	2.8	0.25	8.4	19.5	10.8	19.1						
15.0	3.2	5.3	2.8	0.25	8.4	19.2	11.8	20.3						
16.0	3.2	4.8	2.8	0.25	10.4	19.5	12.8	20.8						
17.0	3.3	5.0	2.9	1.375	10.4	19.2	13.7	22						

NOTES:

- 1. SEE L600 FOR SUSPENSION WEIGHT.
- 2. SEE L1073 FOR RIDE HEIGHT RANGE.

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

JOUNCE, REBOUND AND BUMPER CONTACT DIMENSIONS FOR WELD-ON SUSPENSIONS ARE FROM TRAVEL STUDY DRAWING D-27124 (TAPERED WELD-ON).

JOUNCE DIMENSIONS FOR BOLT-ON SUSPENSIONS ARE FROM

TRAVEL STUDY DRAWING D-28025 (BOLT-ON CLASSIC). REBOUND AND BUMPER CONTACT DIMENSIONS FOR BOLT-ON SUSPENSIONS

ARE FROM TRAVEL STUDY DRAWING D-27881 (SIDE-MOUNT BOLT-ON).

DIMENSIONS "G" & "H" WILL REMAIN CONSTANT REGARDLESS OF RIDE HEIG

DIMENSIONS "G" & "H" WILL REMAIN CONSTANT REGARDLESS OF RIDE HEIGHT VARIATION FROM NOMINAL POSITION.

5. "G" = RIDE HEIGHT - JOUNCE.

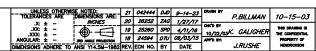
"H" = RIDE HEIGHT + REBOUND.

DIMENSION SHOWN IS FOR SIDE-MOUNT BOLT-ON FRAME BRACKET, WHICH USES .50 THICK MOUNTING PLATE.

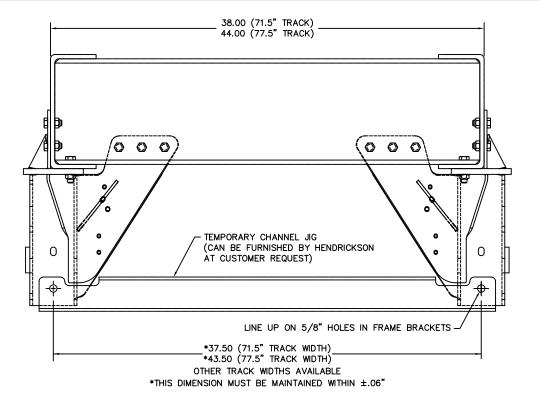
SUBTRACT .12 INCH FOR BOLT-ON CLASSIC FRAME BRACKET, WHICH USES .38 THICK MOUNTING PLATE.

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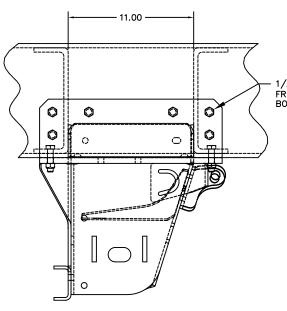




FRAME BRACKET INSTALLATION USING TEMPORARY CHANNEL JIG

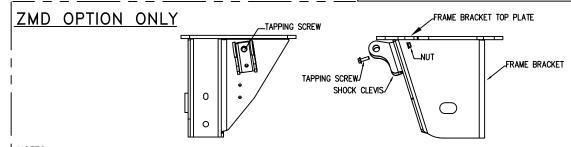
WINGED, SIDE-MOUNT BOLT-ON FRAME BRACKET

(REQUIRED TO MAINTAIN PROPER FRAME BRACKET SPACING AT PIVOT LEVEL)



/2" BOLTS SHOWN FRAME BRACKETS FOR 5/8" BOLTS ALSO AVAILABLE.

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- NOTES:
 1. VERIFY THE SELF TAPPING SCREW IS TO BE INSTALLED.
 2. INSERT THE SELF TAPPING SCREW INTO THE SHOCK CLEVIS HOLE, CLOSEST TO THE FRAME BRACKET TOP PLATE.
- 3. USING A NUT RUNNER, THREAD THE SELF TAPPING SCREW, INTO THE SHOCK CLEVIS AND THE FRAME BRACKET.

 4. THREAD THE NUT ONTO THE SELF TAPPING SCREW, TWO FULL TURNS BY HAND, TO AVOID CROSS THREADING.

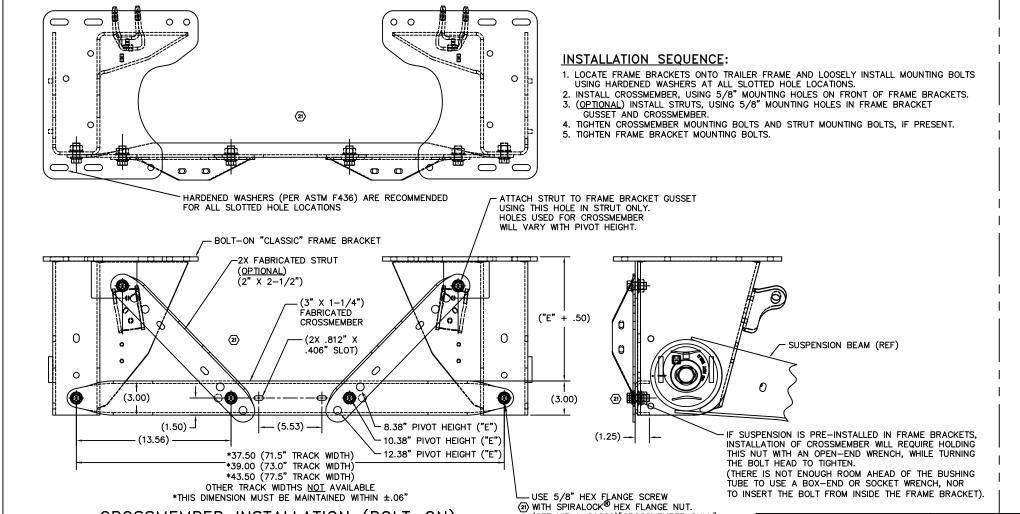
 5. USING A 25 FT. LB. TORQUE WRENCH, TIGHTEN THE NUT.
- 6. VERIFY THAT THE SELF TAPPING SCREW HAS BEEN PROPERLY INSTALLED AND THE NUT TIGHTENED.

INSTALLATION SEQUENCE:

- 1. LOCATE FRAME BRACKETS ONTO TRAILER FRAME RAILS, AND LOOSELY INSTALL MOUNTING BOLTS.
- 2. PIN OR BOLT CHANNEL JIG INTO PLACE, AS SHOWN, USING 5/8" BOLTS OR PINS.
 3. TIGHTEN BOLTS ATTACHING FRAME BRACKETS TO FRAME TRAILER FRAME RAILS.
 4. MATCH DRILL WING GUSSET HOLES INTO TRAILER FRAME CROSSMEMBERS.
 5. BOLT FRAME BRACKET WING GUSSETS TO TRAILER FRAME CROSSMEMBERS.

- 6. REMOVE BOLTS OR PINS FROM CHANNEL.

*IF A LIFT KIT (UBL) IS TO BE INSTALLED ON THIS SUSPENSION, DO NOT INSTALL BRACING CHANNEL, ANGLE, OR FRONT GUSSETS, BEFORE REVIEWING D-28630 UBL-004 INSTALLATION DRAWING.

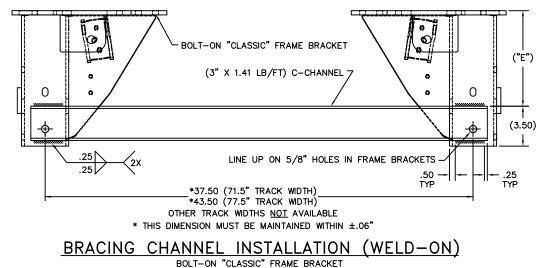


INSTALLATION SEQUENCE:

- 1. LOCATE FRAME BRACKETS ONTO TRAILER FRAME, AND LOOSELY INSTALL MOUNTING BOLTS. USING HARDENED WASHERS AT ALL SLOTTED HOLE LOCATIONS.
- 2. PIN OR BOLT CHANNEL INTO PLACE, AS SHOWN, USING 5/8" BOLTS OR PINS.
- WELD CHANNEL TO FRAME BRACKETS, AS SHOWN.
 TIGHTEN FRAME BRACKET MOUNTING BOLTS.
- 5. REMOVE BOLTS OR PINS FROM CHANNEL.

*WITH THE EXCEPTION OF UBL. FOR INSTALLATION OF CHANNEL ON SUSPENSIONS WITH UBL, REFER TO D-28630.

*IF A LIFT KIT (UBL) IS TO BE INSTALLED ON THIS SUSPENSION. DO NOT INSTALL BRACING CHANNEL, ANGLE, OR FRONT GUSSETS, BEFORE REVIEWING D-28630 UBL-004 INSTALLATION DRAWING.



(REQUIRED TO MAINTAIN PROPER FRAME BRACKET SPACING AT PIVOT LEVEL)

10-15-03

INTRAAX® AANT INSTALLATION DRAWING 3 OF 4

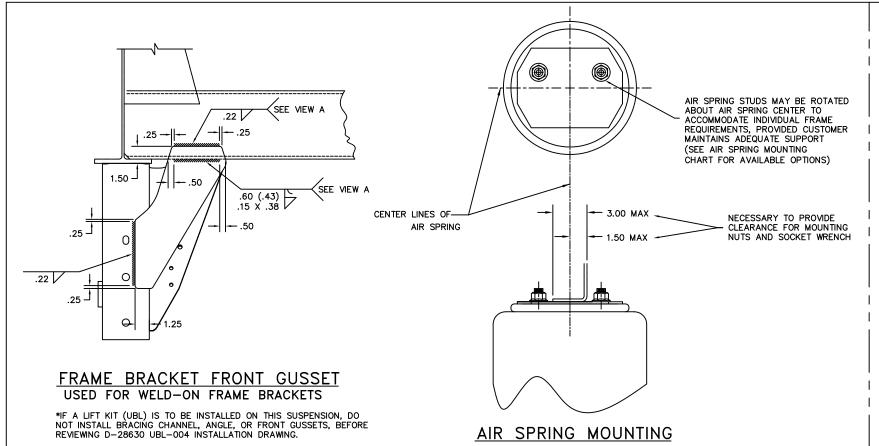
CROSSMEMBER INSTALLATION (BOLT-ON) BOLT-ON "CLASSIC" FRAME BRACKET (REQUIRED TO MAINTAIN PROPER FRAME BRACKET SPACING AT PIVOT LEVEL)

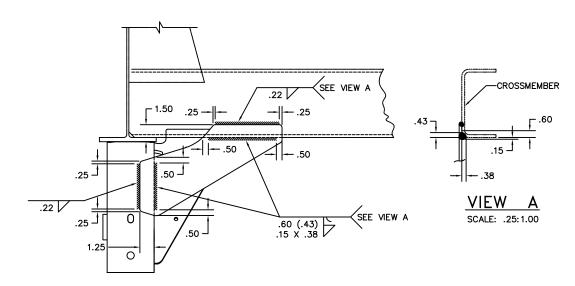
(SEE KIT A-30720)[CROSSMEMBER & STRUTS] HILLIDBICKSON TORQUE TO 190±20 FT—LB. *((TORQUE BY NUT WHERE POSSIBLE))*

(SEE KIT A-29822)[CROSSMEMBER ONLY]

TRAILER COMMERCIAL VEHICLE SYSTEMS

D-28108



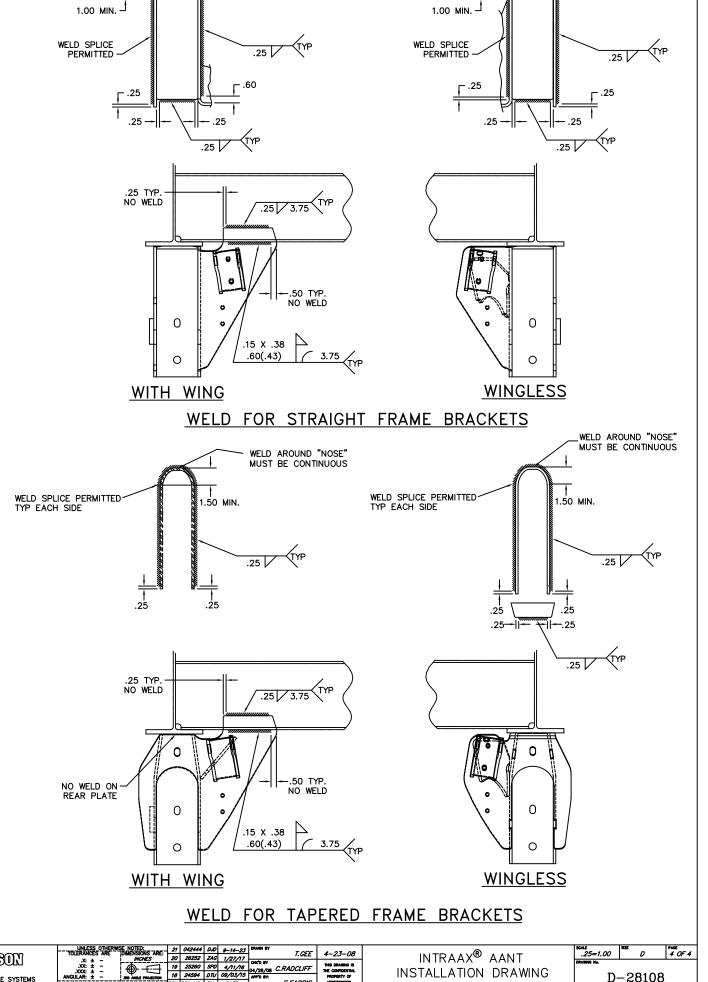


FRAME BRACKET FRONT GUSSET (ROTATED):

FOR 4.5" PIVOT HEIGHT, WINGED WELD-ON FRAME BRACKETS USED ON 6.5" THRU 9" RIDE HEIGHTS

*IF A LIFT KIT (UBL) IS TO BE INSTALLED ON THIS SUSPENSION, DO NOT INSTALL BRACING CHANNEL, ANGLE, OR FRONT GUSSETS, BEFORE REVIEWING D-28630 UBL-004 INSTALLATION DRAWING.

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WELD AROUND CORNERS MUST BE CONTINUOUS

HUHNDRICKSON TRAILER COMMERCIAL VEHICLE SYSTEMS

INSTALLATION DRAWING

D-28108

- WELD AROUND CORNERS MUST BE CONTINUOUS