

pose for which it has been loaned to

you.

UBL- | 201 | 202 | 301 | 302 BILL OF MATERIALS: 4 REV 4 4 4 4 QTY.QTY.QTY.QTY. DESCRIPTION A-30634-1 LIFT ASSEMBLY BOLT KIT 2 2 2 AIR SPRING 2 2 2 LIFT BRACKET 2 BEAM PLATE ASS'Y FRONT BRACKET ASSEMBLY, L.H. C-33350-1GV FRONT BRACKET ASSEMBLY, L.H. FRONT BRACKET ASSEMBLY, R.H. FRONT BRACKET ASSEMBLY, R.H. UBL-201,202 & UBL-301,302 1-WAY CHECK VALVE ASSEMBLY *DWG C-30435 LIFT AXLE CONTROL UBL INFORMATION AND INSTALLATION 1 1 WEIGHT (LB) 70.92 71.13

* NOT SHOWN

1. 12" RIDE HEIGHT SHOWN, INSTALLATION IS SAME FOR ALL RIDE HEIGHTS. 2. WELDING PARAMETERS:

NOTE: A WELDER QUALIFIED IN 2G POSITION PER ANSI/AWS D1.1-94 SECTION 5 PART C "WELDER QUALIFICATIONS" MUST PERFORM THE WELDING.

FOR ALL WELDED CONNECTIONS, USE THE FOLLOWING PARAMETERS TO ACHIEVE SPRAY ARC TRANSFER:

THE ITEMS TO BE WELDED MUST

BE AT A MINIMUM TEMPERATURE OF 60°F (16°C) AND MUST BE FREE OF MOISTURE, DIRT, SCALE, PAINT AND GREASE.

.156 DIAMETER; 120-160 AMPS DC; ELECTRODE POSITIVE

AWS ER-70S-6; .045 DIAMETER AWS ER-70S-3; .045 DIAMETER

26 - 30 DCRP 275 - 325 AMPS WIRE FEED SPEED: 380 - 420 IPM ELECTRODE EXTENSION: 3/4 - 1 INCH

86 PERCENT ARGON AND

14 PERCENT CO2 AT 30 TO 35 CFH

NOTE: ANY DEVIATION FROM THESE WELDING PARAMETERS MUST BE APPROVED IN WRITING BY HENDRICKSON TRAILER COMMERCIAL VEHICLE SYSTEMS.

. START

3. AAL 30K REQUIRES A CROSSOVER AIR CONTROL KIT.

4-UBL-301/302 LIFT KIT INCLUDES A 1-WAY CHECK VALVE ASSEMBLY. FOR THE USE WITH A LIFT AXLE AIR CONTROL KIT. REFER TO THE LIFT AXLE CONTROL DRAWING FOR PROPER

5. BEAM PLATE ASSEMBLIES MUST BE REMOVED TO INSTALL OR REMOVE PARKING BRAKE CHAMBERS. DOES NOT APPLY TO SERVICE BRAKE

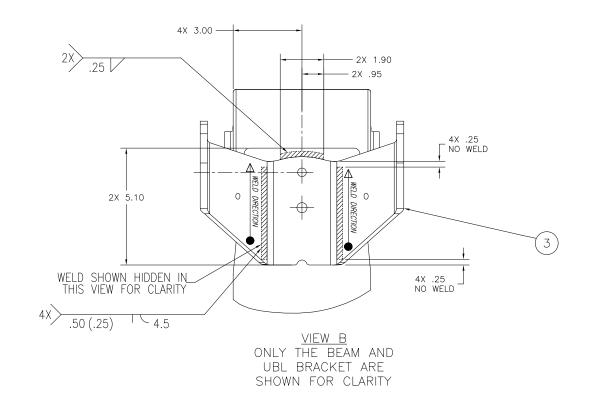
BEAM BRACKET ASSEMBLY PROCEDURE

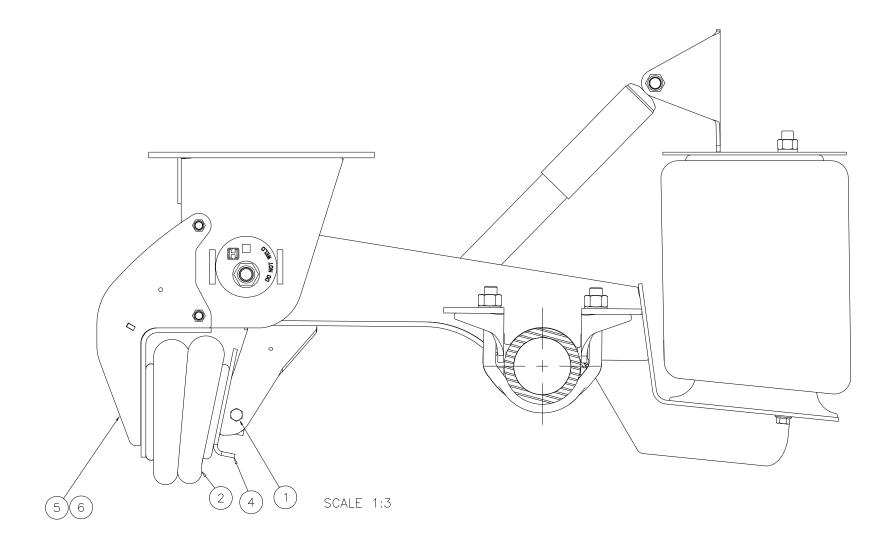
- 1. LOCATING BRACKET FOR WELDING POSITION BEAM-MOUNTED LIFT BRACKET (ITEM 3) AGAINST BOTTOM OF BEAM. ALIGN THE CENTER HOLE AND SLOT ON THE LIFT BRACKET WITH THE LOCATING HOLES IN BEAM. USING THE (2) 3/8-16 X .75 SELF-TAPPING SCREWS, SECURE BRACKET AGAINST BEAM IN PREPARATION FOR WELDING.
- 2. WELDING BRACKET TO BEAM WELD FRONT AND BOTH SIDES OF BRACKET TO BEAM AS SHOWN. LOCATING SCREWS CAN BE REMOVED AT THIS TIME.
- 3. INSTALLING BRAKE ACTUATOR
 IF LONG-STROKE, 30/30 SPRING BRAKES ARE USED. THE REAR LOCATING SCREW MUST BE REMOVED TO PROVIDE ADEQUATE CLEARANCE. INSTALL AND UNCAGE PARKING BRAKES AT THIS TIME. THERE IS NO CAGING TOOL ACCESS FOR SPRING BRAKES AFTER THE BEAM PLATE ASSEMBLY IS BOLTED IN PLACE.

PRODUCTION

4. ASSEMBLING AIR SPRING MOUNTING PLATE INSTALL BEAM PLATE ASSEMBLY (ITEM 4) USING (4) $\frac{1}{2}$ -13 X 1.25 HEX CAP SCREW AND (4) 1/2-13 NUTS AND TIGHTEN TO SPECIFIED TORQUÉ.

UNLESS OTHERWISE NOTED: 4 3:3441 SLB 1-31-20 DRAWN BY D. DAGNALL X. ± 1, WG/ES J 26:369 ZAG 3-1-17 CMC BY D. DAGNALL XX. ± .06 J 22:789 D. DD 1-22-14 CMC BY B. BREWER NAVEL 2: 22:096 D.D 1-22-14 APPT BY B. BREWER DIMENSIONS JAHRET TO ANSI 174.5M-1982 REV. ECN NO. BY DATE E. FABRIS 2-26-13 .50=1.00 1 OF 3 HENDRICKSON UNDER BEAM LIFT D - 33380TRAILER COMMERCIAL VEHICLE SYSTEMS 2070 INDUSTRIAL PLACE S.E., CANTON, OH 44707-2600 U.S.A.





<u>UBL-201 AND -202</u> LIFT KIT FOR CONNEX ST

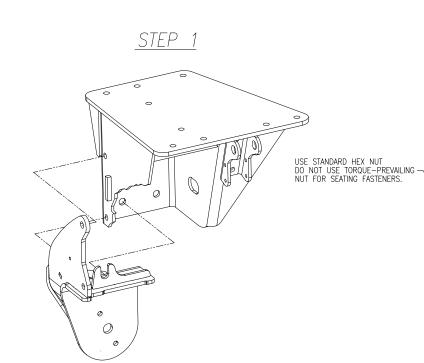
- NOTES.

 1. INSTALL UBL BEAM BRACKET PER VIEW B AND THE INSTRUCTIONS BELOW.

 2. FOR REST OF UBL INSTALLATION INSTRUCTIONS REFER TO PAGES 1 AND 3.
- CONNEX ST BEAM BRACKET ASSEMBLY PROCEDURE
- 1. LOCATING BRACKET FOR WELDING POSITION BEAM-MOUNTED LIFT BRACKET (ITEM 3) AGAINST BOTTOM OF BEAM. ALIGN PER DIMENSIONS IN VIEW B.
- 2. WELDING BRACKET TO BEAM WELD FRONT AND BOTH SIDES OF BRACKET TO BEAM AS SHOWN.
- 3. ASSEMBLING AIR SPRING MOUNTING PLATE SEE PAGE 1 STEP 4.

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PRODUCTION S. BIRKEY 2-13-20 .50=1.00 SIZE D 2 OF 3 HIENDRICKSON J. HOFER THIS DRAWING IS THE CONFIDENTIAL PROPERTY OF HENDRICKSON UNDER BEAM LIFT D - 33380TRAILER COMMERCIAL VEHICLE SYSTEMS 2070 INDUSTRIAL PLACE S.E., CANTON, OH 44707-2600 U.S.A.



FRONT BRACKET ASSEMBLY PROCEDURE

- ** FRONT BRACKET MUST BE IN PLACE BEFORE SEATING THE RIBBED-NECK BOLTS. BRACKET CANNOT BE INSTALLED IF BOLTS ARE INSTALLED PRIOR TO POSITIONING OF THE BRACKET.

1. FITTING BRACKET INTO PLACE.

SLIDE FRONT BRACKET INTO PLACE, MAKING SURE THAT ALL MOUNTING HOLES IN UBL BRACKET ALIGN WITH HOLES IN FRAME BRACKET.

2. INSERTING SIDE MOUNTING BOLTS.

HOLDING THE FRONT BRACKET IN PLACE, PUSH RIBBED NECK FASTENERS INTO MOUNTING HOLES FROM INSIDE OF FRAME BRACKET. INSERT AND TIGHTEN THE PROVIDED 1/2-13 STANDARD (NON-LOCKING) HEX NUT ON EACH RIBBED-NECK FASTENER. AS THE NUT IS TIGHTENED, THE FASTENER WILL BE DRAWN INTO THE FRAME BRACKET MOUNTING HOLES. TIGHTEN THE NUT UNTIL THE HEAD OF THE FASTENER IS FLUSH WITH THE INSIDE OF THE HANGER. (HEX NUT CAN BE REUSED TO SEAT ALL FOUR RIBBED-NECK FASTENERS. DO NOT USE PREVAILING TORQUE NUTS TO SEAT RIBBED-NECK BOLTS)

3. TIGHTENING SIDE MOUNTING BOLTS.

PLACE 1/2-13 PREVAILING TORQUE NUTS ONTO RIBBED-NECK FASTENERS AND TORQUE TO SPECIFIED VALUE.

4. INSTALLING FRONT MOUNTING BOLT.

PLACE 5/8-11 X 1.50 CARRIAGE BOLT THROUGH FRONT MOUNTING HOLE WITH THE BOLT HEAD ON THE INSIDE OF THE FRAME BRACKET (NEAREST THE PIVOT BUSHING). HOLD CARRIAGE BOLT IN HOLE AND PLACE 5/8-11 TORQUE PREVAILING HEX NUT ONTO BOLT AND TORQUE TO SPECIFIED VALUE.

5. AIR SPRING ASSEMBLY.

ASSEMBLE THE AIR SPRING WITH THE AIR INLET FACING TO THE FRONT OR REAR, DEPENDING ON AIR LINE ORIENTATION PREFERENCE. TIGHTEN THE 3/4-16 FLANGE NUT AND 3/8-16 X .88 BOLTS TO SPECIFIED TORQUES.

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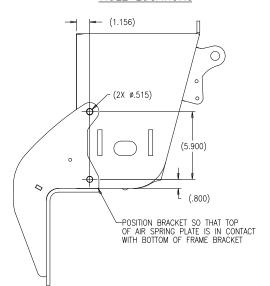
FOR FRAME BRACKETS NOT EQUIPPED WITH MOUNTING HOLES

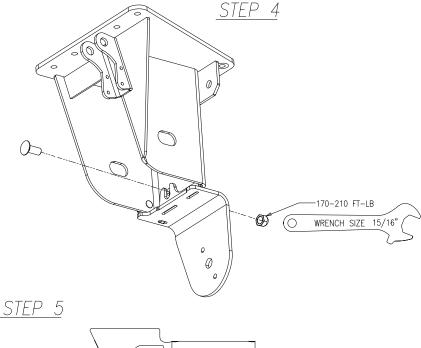
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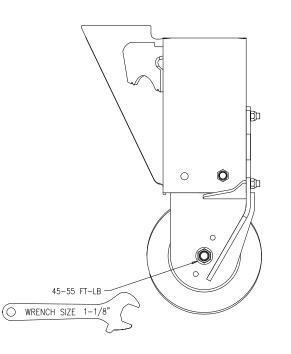
- 1. POSITION FRONT LIFT BRACKET ONTO SUSPENSION FRAME BRACKET.
 2. OUTBOARD HOLES: USING TRANSFER PUNCH, CENTER PUNCH TO LOCATE CENTER OF FRONT LIFT BRACKET HOLES ONTO THE OUTBOARD SIDE OF THE SUSPENSION FRAME BRACKET.
 3. DRILL PILOT HOLES SIZE DOTIONAL.
 4. DRILL FINISH HOLES USING 33/64" DRILL (.515" DIA.)
 5. FRONT HOLE: CENTER PUNCH AT THIS LOCATION, PILOT DRILL, AND FINISH DRILL USING A 41/64" DRILL (.640" DIA.)
 6. FINISH: IF FRAME BRACKETS HAVE BEEN GALVANIZED, SURFACE OF DRILLED HOLES

- WILL NEED TO BE SUITABLY RECOATED.

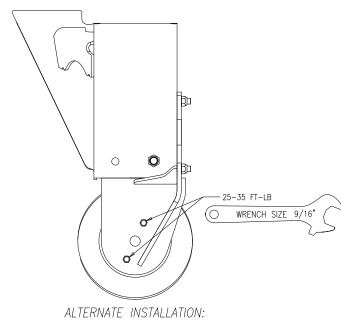
HOLE LOCATIONS



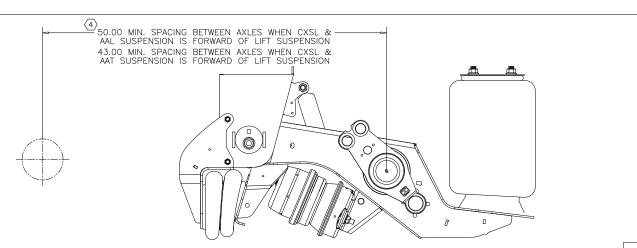




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AIR INLET TOWARD REAR OF SUSPENSION



SCALE: .15=1.00

HHENDRICKSON TRAILER COMMERCIAL VEHICLE SYSTEMS

PREVAILING TORQUE NUT

75-85 FT-LB

WRENCH SIZE 3/4"

D. DAGNALL 2-26-13 B. BREWER THIS DRAWING IS THE CONFIDENTIAL PROPERTY OF HENDRICKSON

UNDER BEAM LIFT

.25=1.00 D 3 OF 3 D - 33380

PRODUCTION