PART NUMBER	REV.
UBL-401	5
UBL-402	5

	BILL OF MATERIALS: UBL-			401	402
	ITEM	PART NUMBER	DESCRIPTION	QTY.	QTY.
	1	C-32038-1C	FRONT BRACKET ASSEMBLY, L.H.	1	-
	1	C-32038-1GV	FRONT BRACKET ASSEMBLY, L.H.	-	1
	2	C-32038-2C	FRONT BRACKET ASSEMBLY, R.H.	1	-
	2	C-32038-2GV	FRONT BRACKET ASSEMBLY, R.H.	-	1
	3	C-28614	REAR BRACKET ASSEMBLY	2	2
	4	C-28617-1	LIFT BRACKET, L.H.	1	1
	5	C-28617-2	LIFT BRACKET, R.H.	1	1
	6	C-23114	AIR SPRING	2	2
	7	A-30634-1	LIFT ASSEMBLY BOLT KIT	1	1
.	8	*DWG D-33373	UBL-4XX LIFT KIT DRAWING	1	1
	9	*T91001	UBL INFORMATION AND INSTALLATION	1	1
ಅಅ		* NOT SHOWN			

* NOT SHOWN

1. 14" RIDE HEIGHT SHOWN. INSTALLATION IS SAME FOR ALL RIDE HEIGHTS. 2. WEIGHT: 59.32 LB. INCLUDES .25 LB FOR ATTACHMENT WELDS.

3. 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:

SURFACE PREP: 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.

STANDARD ELECTRODE: AWS E-7018 (OVEN DRIED); .125 DIAMETER; 120-140 AMPS DC; ELECTRODE POSITIVE

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

SETTINGS FOR .045 DIAMETER WIRE

STANDARD WIRE: AWS ER-70S-6; .045 DIAMETER OPTIONAL WIRE: AWS ER-70S-3; .045 DIAMETER

VOLTS: 26 - 30 DCRP CURRENT: 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

SETTINGS FOR .035 DIAMETER WIRE

GAS:

STANDARD WIRE: ER80S-D2 0.035" DIAMETER

25 - 27.5 DCRP VOLTS: CURRENT: 160 - 180 AMPS WIRE FEED SPEED: 390 - 425 IPM ELECTRODE EXTENSION: 3/4 - 1 INCH

85 PERCENT ARGON AND 15 PERCENT CO2 AT 35 TO 45 CFH

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

WELD DIRECTION: STOP START

4. BRAKE CHAMBERS, IF ALREADY MOUNTED, MUST BE REMOVED BEFORE INSTALLING LIFT KIT.

MOST BE LEMOVED BEFONE INSTILLING
LIFT KIT.

5. BOLT—ON FRONT BRACKET ASSEMBLY CAN BE USED
IN CONJUNCTION WITH BOLT—ON LATERAL BRACE. IN
SUCH CASES, THE FRONT MOUNTING BOLT (SHOWN IN
STEP 4, PAGE 3) IS USED FOR ATTACHING BOTH UBL BRACKET
AND LATERAL BRACES. FOR LATERAL BRACES OTHER
THAN THOSE SUPPLIED BY HENDRICKSON, CARE MUST
BE TAKEN NOT TO OBSTRUCT THE FRONT MOUNTING HOLE.
SEE VIEW B—B.
6. IF POSSIBLE, IT IS HIGHLY RECOMMENDED THAT
THE LIFT BRACKET WELDING SHOWN ON PAGE 2 BE
PERFORMED WITH THE SUSPENSION INVERTED,
TO ALLOW THE WELDS TO BE APPLIED IN THE
DOWNHAND POSITION.

<u>UBL-401 AND-402</u> LIFT KIT FOR AANT

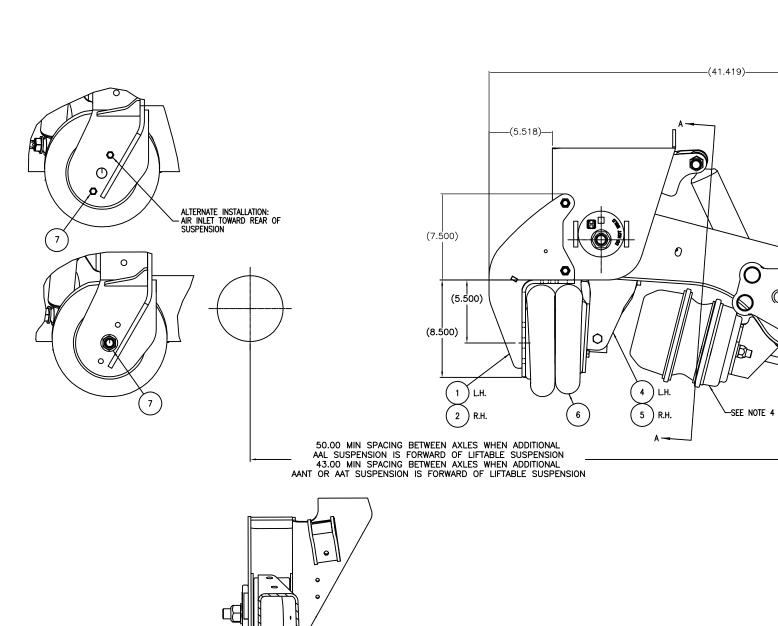
PRODUCTION

HILLIDRICKSON TRAILER COMMERCIAL VEHICLE SYSTEMS

18-JUN-12

UNDER BEAM LIFT

.25=1.00 D 1 OF 3 D-33373



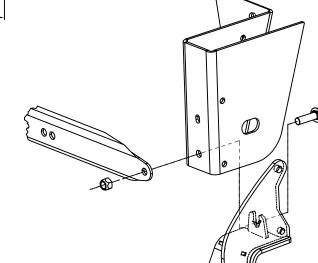
SECTION A-A
SOME COMPONENTS NOT
SHOWN FOR CLARITY.

(3)

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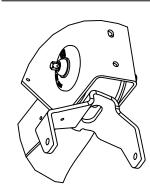
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(RIDE HEIGHT) OID



VIEW B-B SOME COMPONENTS NOT

LIFT BRACKET INSTALLATION



ASSEMBLY PROCEDURE

*UBL CANNOT BE INSTALLED WITH SUSPENSION ASSEMBLED TO FRAME BRACKET (UNITIZED), AS EXCESSIVE WELDING HEAT WILL DAMAGE THE PIVOT BUSHING. SUSPENSION MUST BE DISASSEMBLED FROM FRAME BRACKETS BEFORE WELDING.

- BRACKETS BEFORE WELDING.

 1. PREPARING THE BEAM SURFACE.
 REMOVE PAINT FROM UNDERSIDE OF TRAILING ARM BEAM AS INDICATED BY THE SHADED AREA.

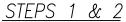
 2. MARKING THE CENTERLINE.
 MARK OR SCRIBE A LINE THROUGH THE CENTER OF THE SMALL OVAL SLOT ON THE UNDERSIDE OF THE TRAILING ARM BEAM, AS SHOWN.
 THE LINE SHOULD BE AT LEAST 5 INCHES IN LENGTH AND PARALLEL TO THE OUTBOARD SIDE OF THE BEAM.

 3. POSITIONING THE LIFT BRACKET.
 LOCATE LIFT BRACKET (ITEM 4 L.H., ITEM 5 R.H.) TO UNDERSIDE OF BEAM, ALGSINING TAB AT REAR OF LIFT BRACKET TO MARKED LINE, MAKE SURE BRACKET SLOT IS PARALLEL TO MARKED LINE, AND FRONT OF THE BRACKET SLOT LINES UP WITH THE FRONT OF THE BEAM SLOT. TACK INTO PLACE.

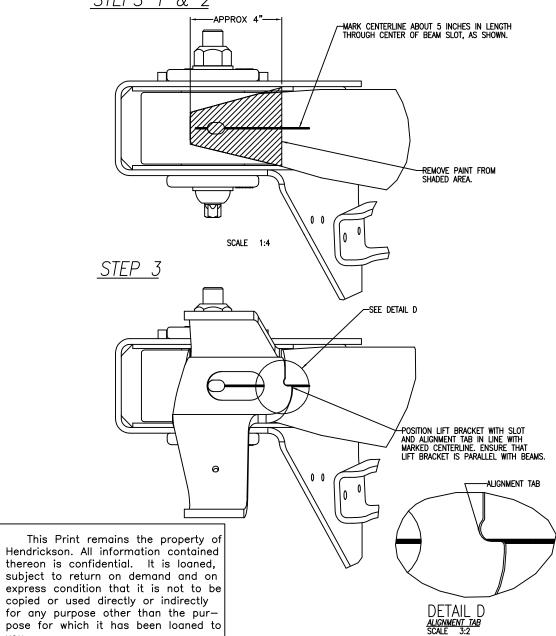
 4. FILLING THE SMALL SLOT.
 PRIOR TO MAKING THE 3-PASS WELD, COMPLETELY FILL THE SMALL SLOT ON THE UNDERSIDE OF THE BEAM.

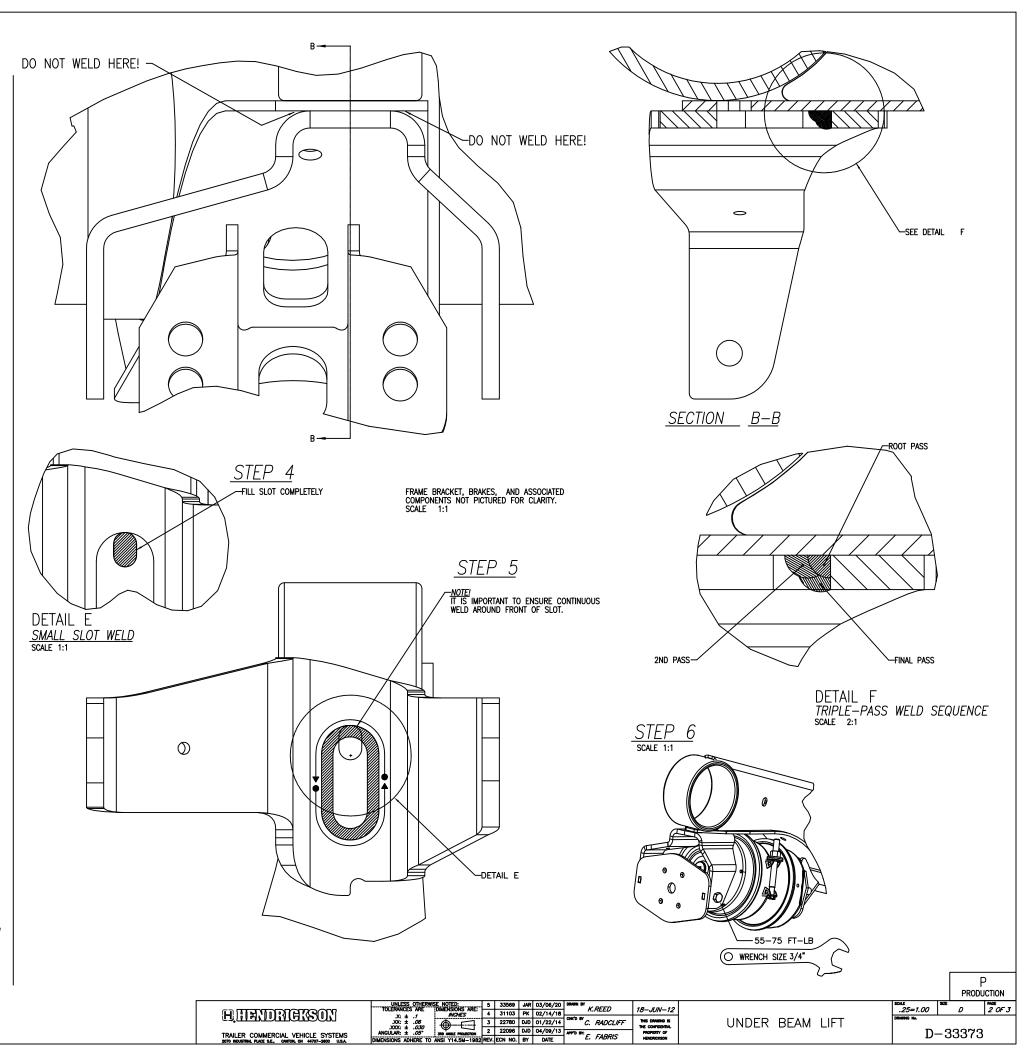
 5. WELDING THE LIFT BRACKET.
 COMPLETE ATTACHMENT OF LIFT BRACKET BY WELDING THE LARGE OVAL SLOT IN THE BRACKET TO THE BEAM. THIS IS A 3-PASS WELD. ALL THREE PASSES MUST BE UNINTERRUPTED AROUND THE FRONT OF THE SLOT, AS INDICATED IN "STEP 5" ILLUSTRATION. NO WELDING IS REQUIRED OUTSIDE OF THE SLOT AREA.
- IS REQUIRED OUTSIDE OF THE SLOT AREA.
- 6. ASSEMBLING AIR SPRING MOUNTING PLATE INSTALL REAR BRACKET ASSY (ITEM-3) USING (4) 1/2-13 X 1.25 HEX CAP SCREWS AND (4) 1/2-13 NUTS AND TIGHTEN TO SPECIFIED TORQUE.

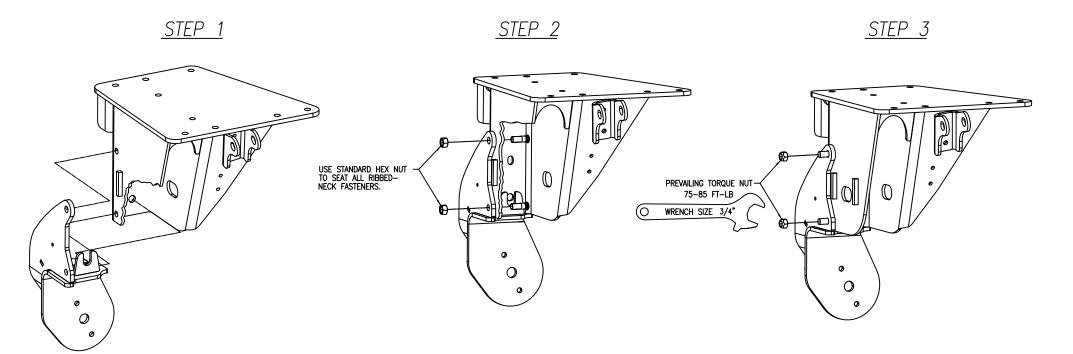
SEE PAGE 3 FOR FRONT BRACKET ASSEMBLY INSTRUCTIONS.

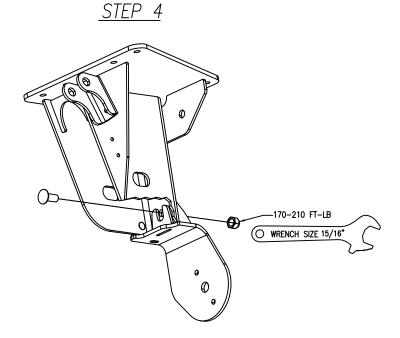


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FRONT BRACKET ASSEMBLY PROCEDURE

- ** 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 PREVAILING TORQUE 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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MODIFICATIONS NECESSARY IF FRAME BRACKETS ARE NOT EQUIPPED WITH MOUNTING HOLES

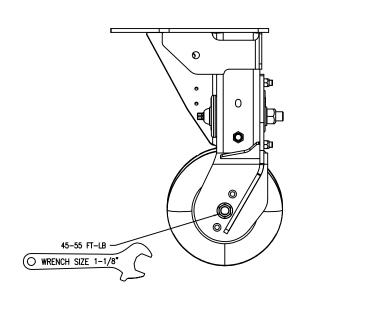
- POSITION FRONT LIFT BRACKET ONTO SUSPENSION FRAME BRACKET.
 OUTBOARD HOLES: USING TRANSFER PUNCH, CENTER PUNCH TO LOCATE CENTER OF FRONT LIFT BRACKET HOLES ONTO THE OUTBOARD SIDE OF THE SUSPENSION FRAME BRACKET.
 DRILL PILOT HOLES, SIZE OPTIONAL.
 TORILL FINISH HOLES USING 33/64" DRILL (.515" DIA.)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

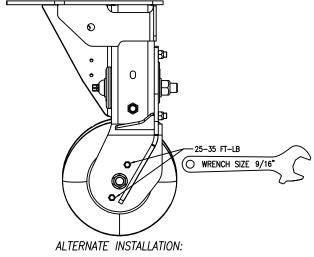
HOLE LOCATIONS

- WILL NEED TO BE SUITABLY RECOATED.

(1.156)~ (2X ø.515) -POSITION BRACKET SO THAT TOP OF AIR SPRING PLATE IS IN CONTACT WITH BOTTOM OF FRAME BRACKET

STEP 5





AIR INLET TOWARD REAR OF SUSPENSION

HILLINDRICKSON TRAILER COMMERCIAL VEHICLE SYSTEMS 18-JUN-12

UNDER BEAM LIFT

PRODUCTION .25=1.00 SIZE PAGE 3 OF 3 D-33373