Mounting Instructions
With Parts Listing and Drawings
For

FREDRICKS FAMILY 3

2-POST FOLDING ROLLBAR

Part No.
A-11371

Manufactured by:
CUSTOM PRODUCTS OF LITCHFIELD, INC.
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05-10563
February 3, 2006

INSTALLATION INSTRUCTIONS FOR ROLLOVER PROTECTION SYSTEM (ROPS)

This manual contains assembly, operating, maintenance and safety instructions for your ROPS. Before Installing the ROPS or operating a machine equipped with a ROPS, carefully read these instructions completely. The ROPS will reduce the risk of serious or fatal injury in the unlikely event of a tip over although the system cannot protect the operator from all possible injuries. By following the operating, maintenance, and safety instructions, you will prolong the life of the machine and the ROPS, maintain its maximum efficiency and promote safe operation.

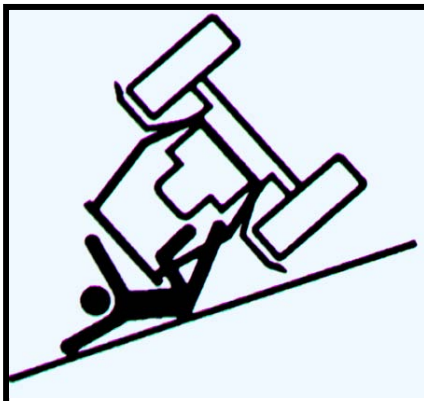
If additional information is needed, contact your authorized equipment dealer or distributor. **Keep this manual with the operator's manual for the machine for future reference.**

IMPORTANT:

1. **Do not cut, drill, modify or repair ROPS in any manner.**
2. **Always replace a damaged ROPS.**
3. **Always use the seatbelt and ROPS together.**
4. **Frequently inspect rollbar and seat belts for damage or loose hardware.**
5. **Use extreme care when working close to fences, ditches, trees and on hills.**
6. **Check overhead clearances carefully before driving under any objects.**
7. **Do not leave operator's position while unit is running.**
8. **Do not carry riders.**

WARNING!

This ROPS is certified for use on machines with a maximum gross vehicle weight (GVW) of 3000 LB. The GVW INCLUDES the weight of the base machine, operator, fuel, ROPS, and other attachments and payloads. When attachments are added, causing the GVW of the machine to be more than 3000 LB., the ROPS may not provide adequate protection resulting in serious injury or death. Use caution when installing attachments and **DO NOT EXCEED** the GVW rating of the ROPS.



WARNING!

SERIOUS INJURY OR DEATH MAY RESULT FROM MACHINE ROLLOVER

- DO NOT OPERATE MACHINE ON STEEP SLOPES OR NEAR DROP OFFS
- ALWAYS USE SEAT BELTS
- AVOID SHARP AND/OR QUICK TURNS
- DO NOT EXCEED THE MACHINE WEIGHT RATING OF THE ROPS

⚠WARNING

ROLLOVER MAY CAUSE PERMANENT INJURY OR DEATH.

- ROPS RAISES THE CENTER OF GRAVITY AND REDUCES STABILITY ON SLOPES.
- SUDDEN STARTS OR TURNS ON RAMPS OR SLOPES CAN CAUSE OVERTURN.
- USE GREATER CARE ON RAMPS AND AS THE SLOPE INCREASES.

MOUNTING INSTRUCTIONS
2-Post Folding Rollbar A-11371 Family 3

Machine Preparation

1) Park the tractor on a level surface and set the brakes.
2) Remove hole plugs at rear of machine where ROPS is to be installed.

Lower ROPS Weldment Installation (Refer to Figure 1 for Steps 3-6)

3) Remove (2) lower point mount bolts. Align lower ROPS with lower point mount holes and install (2) M12-1.75C x 45mm grade 8.8 bolts, (2) ½" flat washers and (2) ½" lock washers, supplied with the ROPS hardware kit.
4) Remove (4) metric M12x1.75C bolts and top point mount-cover from the rear frame casing. Place lower ROPS middle mount surface against the top point mount face. Re-install upper point mount-cover secure with (4) metric M12-1.75C x 45mm grade 8.8 bolts, (4) 1/2" flat washers and (4) 1/2" lock washers, supplied with the ROPS hardware kit.
5) Install (4) 9/16 flat washers, (4) 9/16" lock washers and (4) metric M14-1.50F x 45mm grade 8.8 bolts.
6) Install (2) 9/16 flat washers, (2) 9/16" lock washers and (2) metric M14-1.50F x 30mm grade 8.8 bolts.

Upper Hoop Installation (Refer to Figure 2 for Steps 7-9)

7) Install the upper rollbar hoop. Secure each side of hoop with a ½-13unc x 3.00 grade 5 bolt, a pin retainer washer and a ½-13unc grade 5 center-lock nut into the upper mount hole. Tighten only until the nut contacts the bracket. Do not over tighten. Hoop should pivot freely, up and down. See Figure 2.
8) Install (1) EPDM washer onto each of the hitch pins. Position the top hoop into the up-right location and install the hitch pins. See Figure 2.
9) Attach (1) plastic lanyard to the handle of each hitch pin. Insert one end of the lanyard though the retaining washer and attach the spring pin to the eye in the lanyard. Install the spring pins into the hitch pins.

Seatbelt Installation (Refer to Figure 3)

10) Install the seat belt to each side of the rollbar using (2) 7/16-14unc x 1.25 grade 5 bolts, (4) 7/16" flat washers and (2) 7/16-14unc grade 5 nylock nuts.

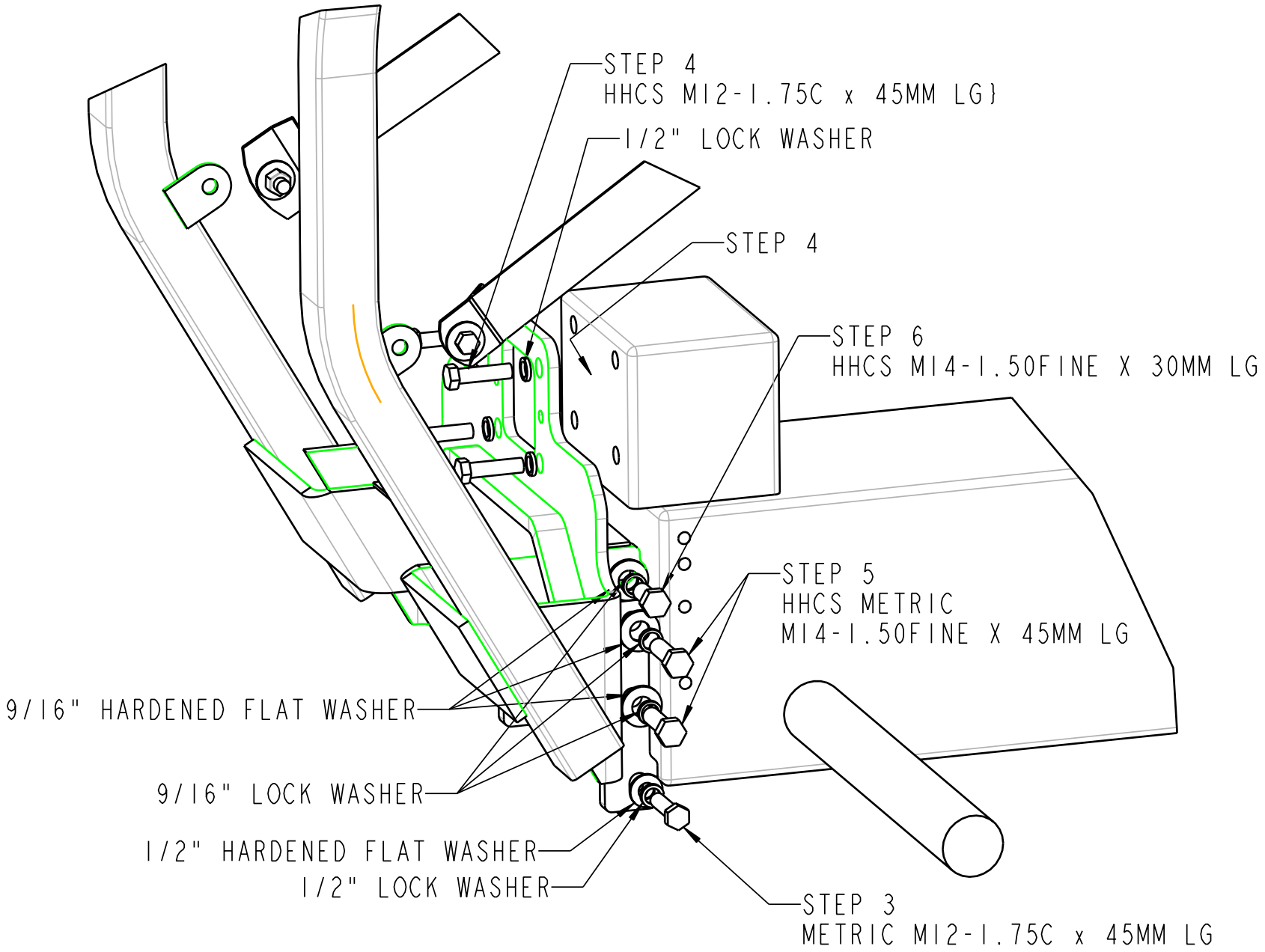


Figure 1

NAME:CAD2 OBJECT:05-10563 DATE:03-Feb-06 14:18:35

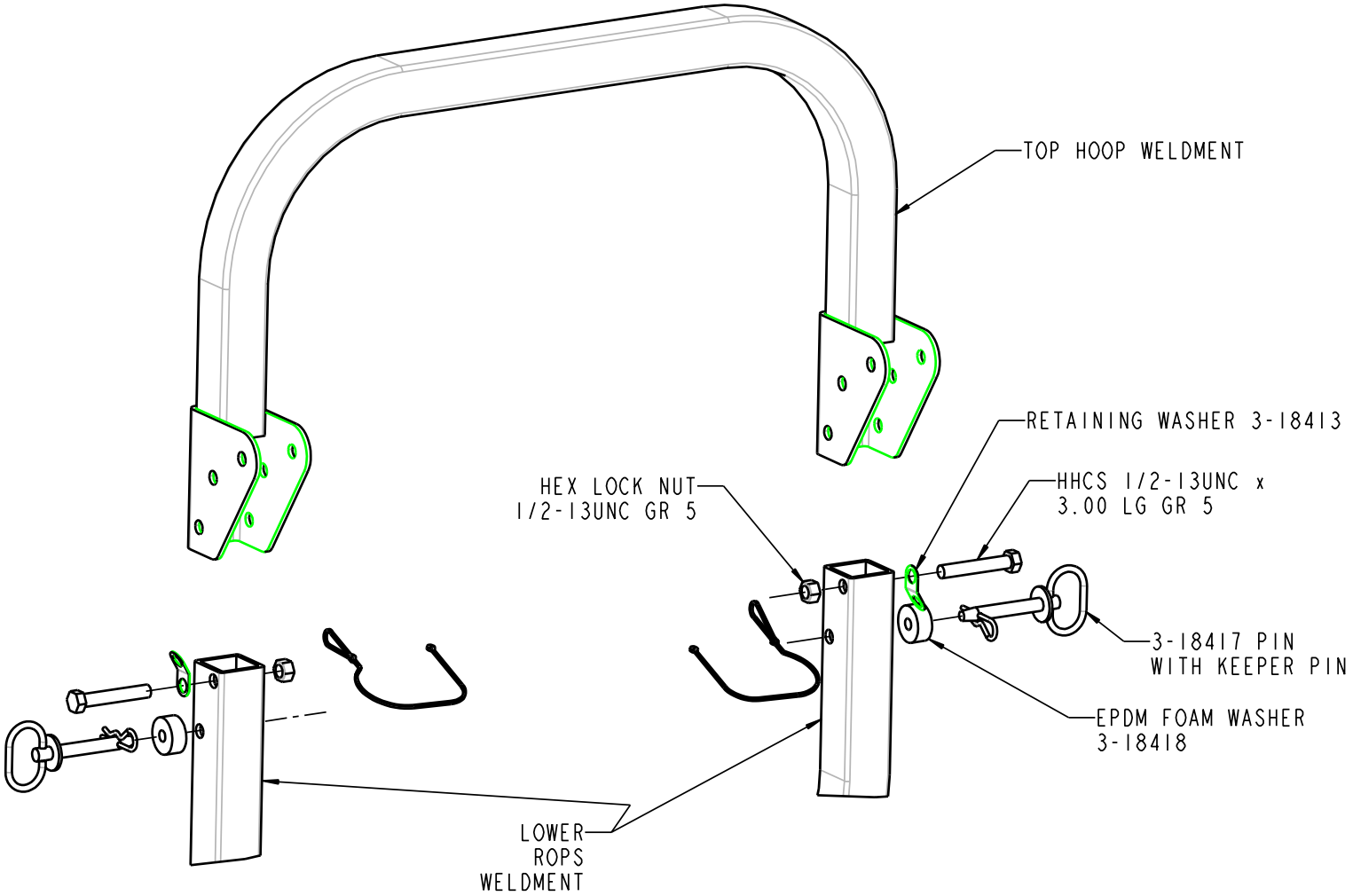


FIGURE 2
UPPER HOOP INSTALLATION

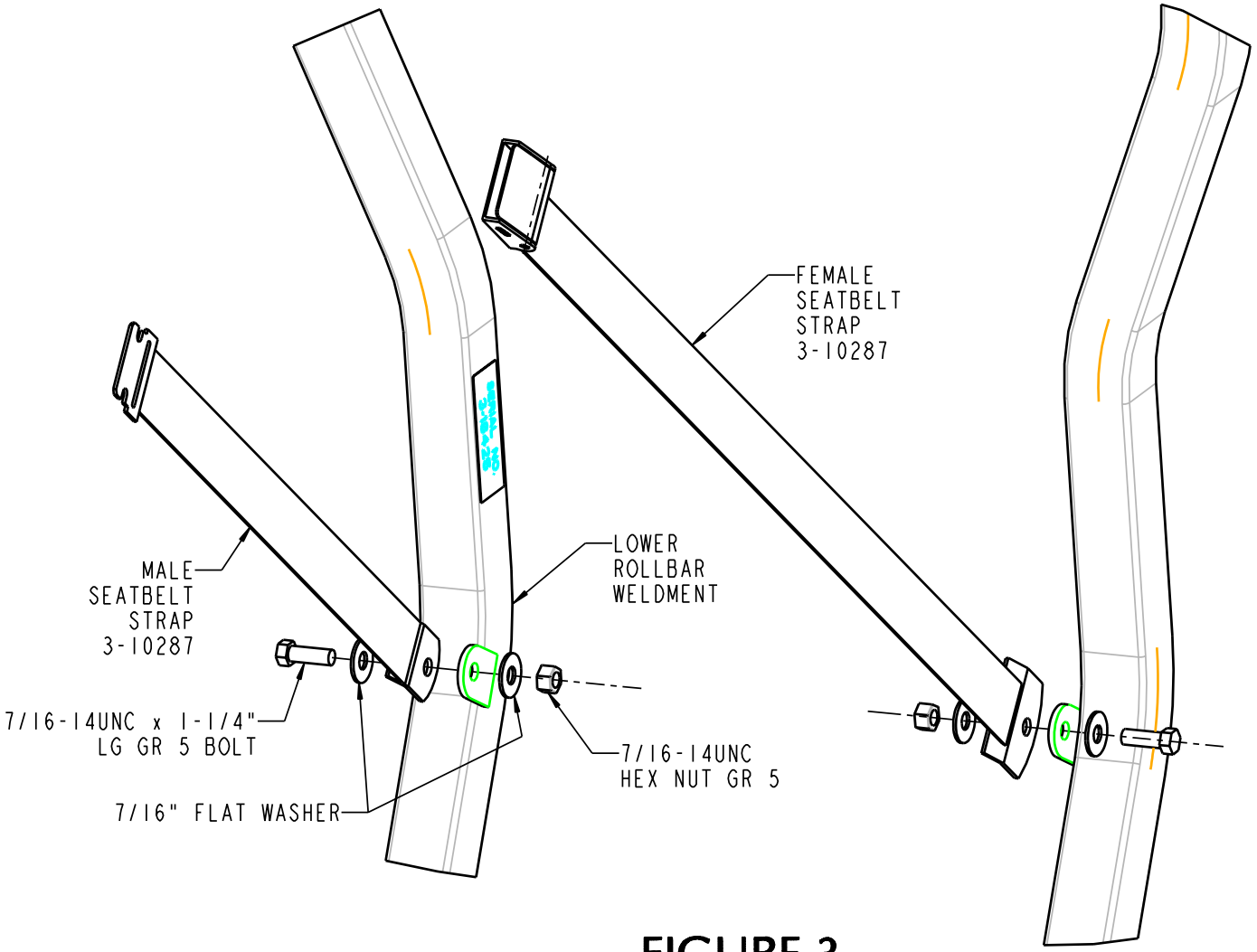
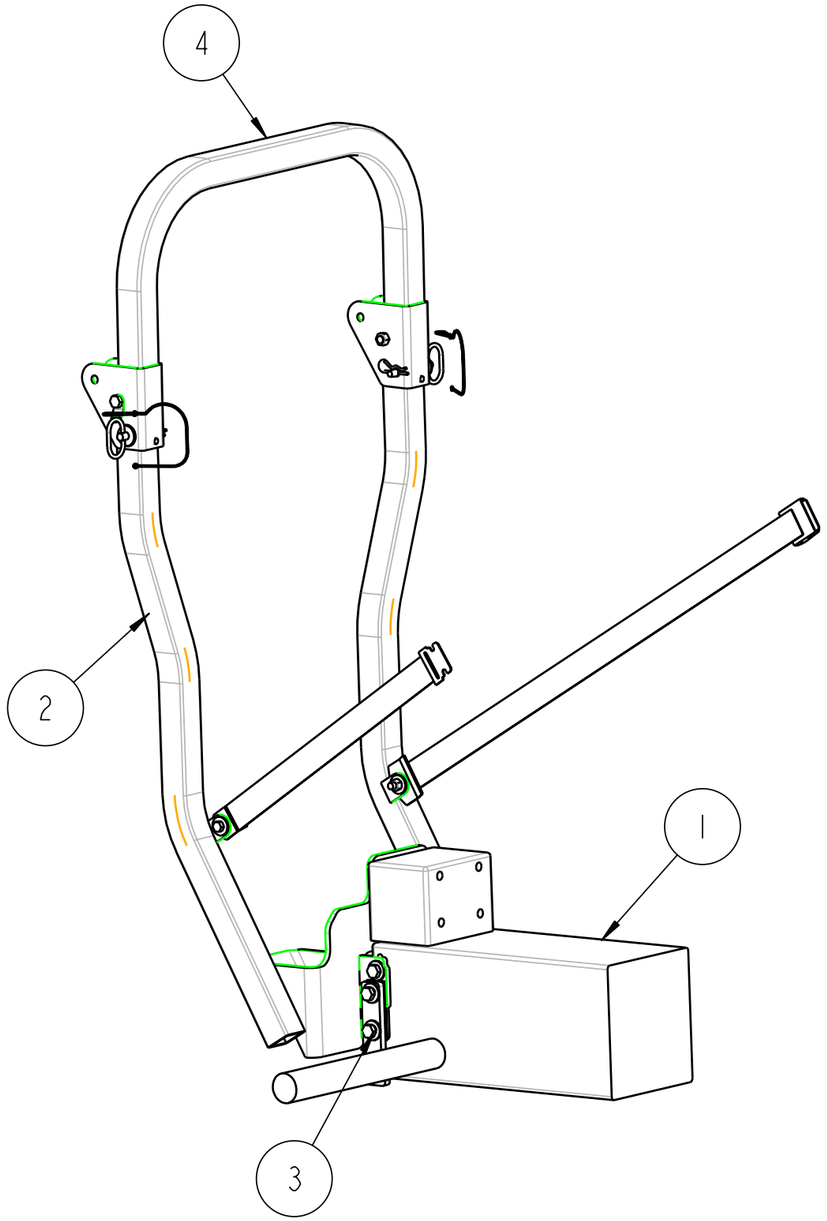


FIGURE 3
SEATBELT INSTALLATION

REV.	DCR NO.	DESCRIPTION	DRAFTSMAN	DATE
				11-7-05



SCALE 0.100

ITEM #	DESCRIPTION	QTY
1	REF_A-11371_FRAME	1
2	4-15007_LOWER_ROPS_FRAME	1
3	4-15008_HARDWARE_KIT_FAM_3	1
4	4-15013_UPPER_HOOP_ASM_REF	1
5	05-10567_LABEL_SHIPPING_FAM_3	SEE BOM
6	3-17913_POWDER_PAINT_BLK_SAT25	SEE BOM

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TOLERANCES UNLESS NOTED OTHERWISE

.X ± .09
.XX ± .06
.XXX ± .03
HOLE SIZE
.015/.010
ANGLE ± .5°

CUSTOMER NAME & MOD NO.: FREDRICKS FAM 3

MATL SPEC:

CUSTOM PRODUCTS 1715 SOUTH SIBLEY AVE. LITCHFIELD, MN 55355

TITLE: FOLDING 2-POST ROPS

DRWG SIZE: B

DRWG NO.: A-11371

REV LEVEL: -

DRAWN: CAD

DATE: 11-7-05

NAME:CAD2 OBJECT:A-11371 DATE:07-Nov-05 14:58:29

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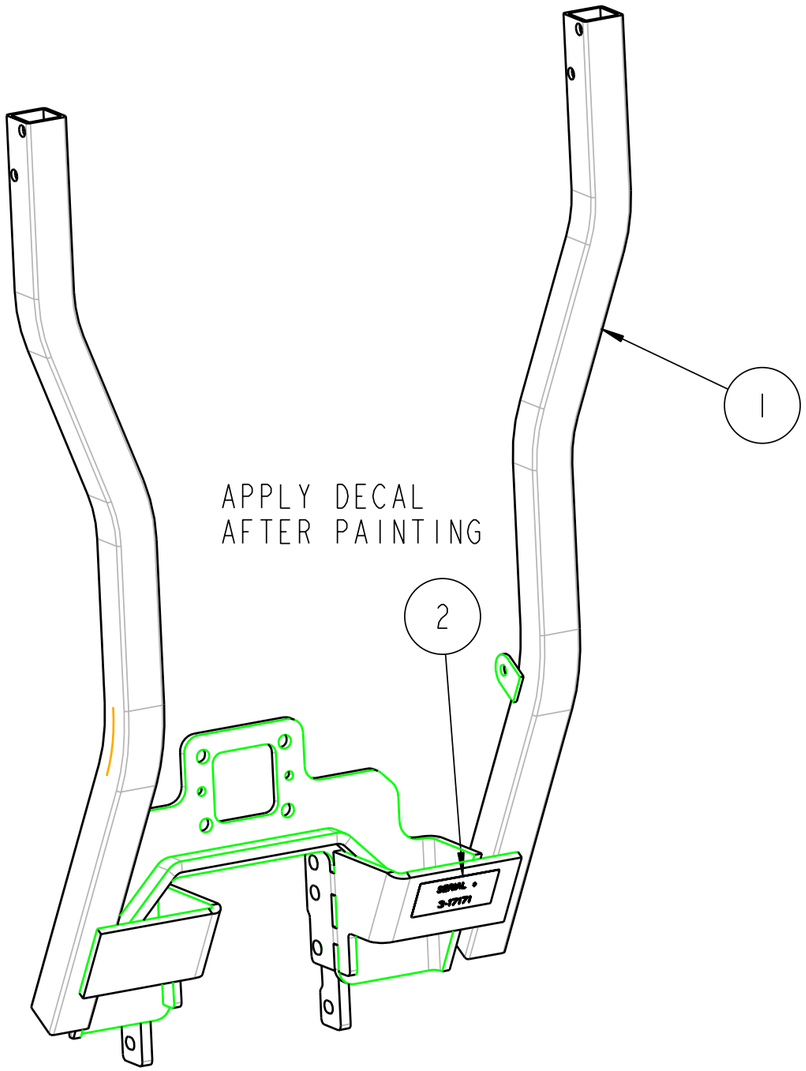
				9-22-05



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ITEM #	DESCRIPTION	QTY
1	2-16075_WELDMENT_LOWER	1
2	3-17171_DECAL_CP_SERIAL_NUMBER	1

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TOLERANCES UNLESS NOTED OTHERWISE

.X ± .09
.XX ± .06
.XXX ± .03
HOLE SIZE ±.015/-.010
ANGLE ± .5°

CUSTOMER NAME & MOD NO.: A-11371 YANMAR FAM 3

CUSTOM PRODUCTS 1715 SOUTH SIBLEY AVE. LITCHFIELD, MN 55355

MATL SPEC:

TITLE: LOWER ROPS ASM

DRWG SIZE: B

DRWG NO.: 4-15007

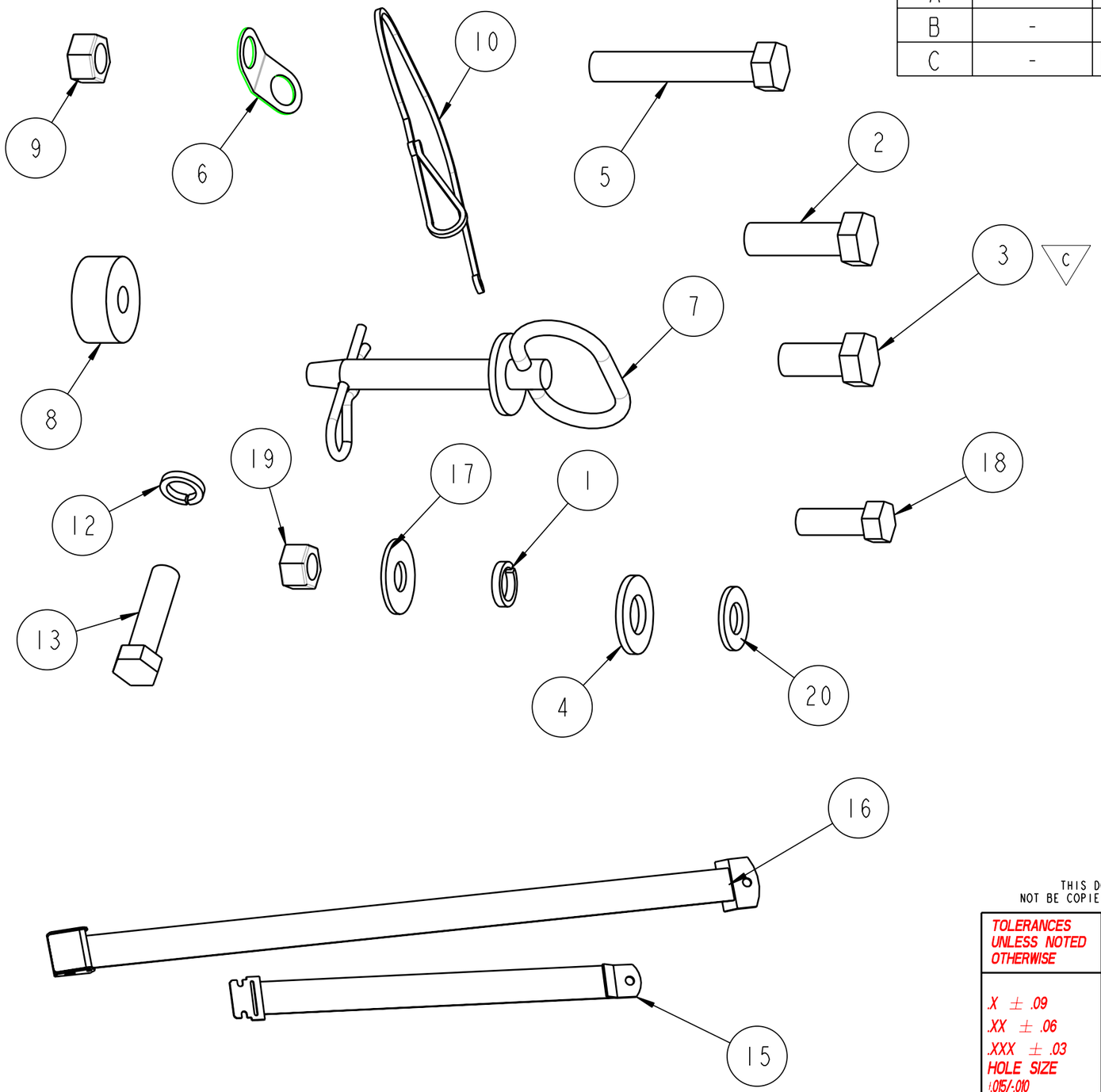
REV LEVEL: -

DRAWN: CAD

DATE: 8-24-05

NAME:CAD2 OBJECT:4-15007 DATE:07-Nov-05 14:49:13

REV.	DCR NO.	DESCRIPTION	DRAFTSMAN	DATE
A	-	RELEASED	CAD	10-10-05
B	-	REDESIGNED MOUNTING	CAD	11-7-05
C	-	BOLT 3-15285 FINE WAS 3-13744 COURSE	CAD	1-30-06



ITEM #	DESCRIPTION	QTY
1	3-12849_56_LOCK_WASHER	6
2	3-12421_HHCS_M14_X_45	4
3	3-15285_HHCS_M14_X_30	2
4	3-17737_FLAT_WASHER_56_HARD	6
5	3-10131_50_HHCS_X300	2
6	3-18413_WASHER_FORMED_RETAIN_50	2
7	3-18417_HITCH_PIN_500	2
8	3-18418_WASHER_EPDM_500	2
9	3-10485_50_NUT_HEX_CNTRLOCK	2
10	3-17811_LANYARD_NYLON_180_LOOP	2
11	3-18439_BAG_ZIPLOC_9X12	SEE BOM
12	3-10079_50_LOCK_WASHER	6
13	3-12316_HHCS_M12_X_45	6
14	05-10563_INSTR_MANUAL	SEE BOM
15	3-10287_SEAT_BELT_1	1
16	3-10287_SEAT_BELT_2	1
17	3-10166_4375_WASHER	4
18	3-10026_44_HHCS_X125	2
19	3-10472_4375_NYLOCK	2
20	3-12466_WASHER_50_TYPE_A_N	2

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TOLERANCES UNLESS NOTED OTHERWISE

.X ± .09
.XX ± .06
.XXX ± .03
HOLE SIZE +.015/-.010
ANGLE ± .5°

CUSTOMER NAME & MOD NO.: A-11371 YANMAR FAMILY 3

MATL SPEC:

CUSTOM PRODUCTS
1715 SOUTH SIBLEY AVE.
LITCHFIELD, MN 55355

TITLE: HARDWARE KIT

DRWG SIZE: B

DRWG NO.: 4-15008

REV LEVEL: C

DRAWN: CAD

DATE: 8-24-05

NAME:CAD2 OBJECT:4-15008 DATE:30-Jan-06 14:17:14

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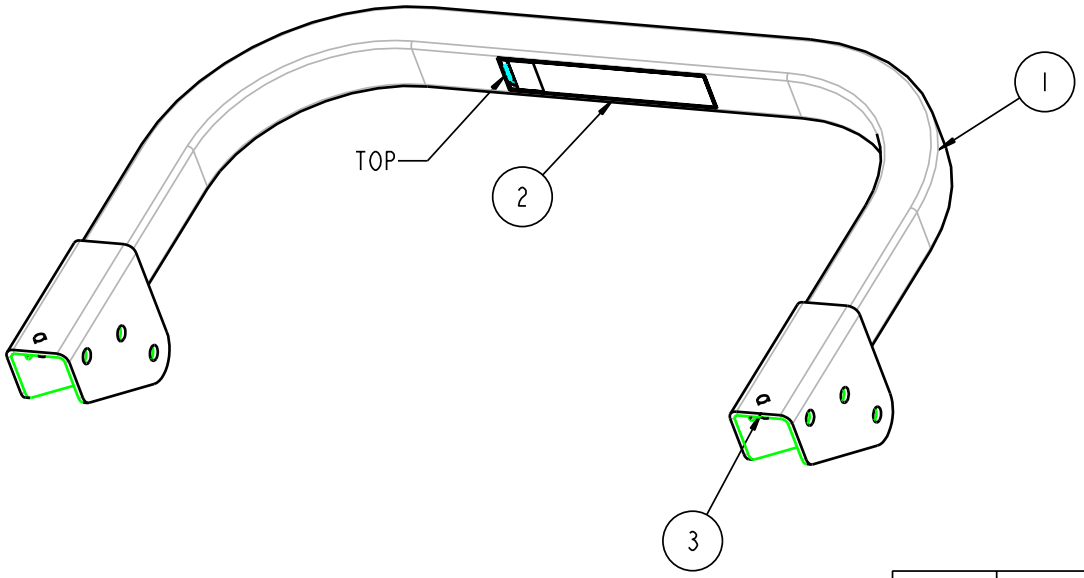
				9-22-05



SCALE 0.250

ITEM #	DESCRIPTION	QTY
1	2-16048_WELDMENT_UPPER_HOOP	1
2	3-18401_FOLDING_ROPS_DECAL	1
3	3-14595_RUBBER_BUMPER	2

ID NUMBER	CUSTOMER-MODEL	QTY REQ'D
A-11371	FAMILY 3	1
A-11382	FAMILY 1	1

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TOLERANCES UNLESS NOTED OTHERWISE
.X ± .09
.XX ± .06
.XXX ± .03
HOLE SIZE
.015/.010
ANGLE ± .5°

CUSTOMER NAME & MOD NO.: SEE CHART

MATL SPEC:

CUSTOM PRODUCTS 1715 SOUTH SIBLEY AVE. LITCHFIELD, MN 55355

TITLE: UPPER HOOP ASM

DRWG SIZE: B

DRWG NO.: 4-15013

REV LEVEL: -

DRAWN: CAD

DATE: 9-21-05