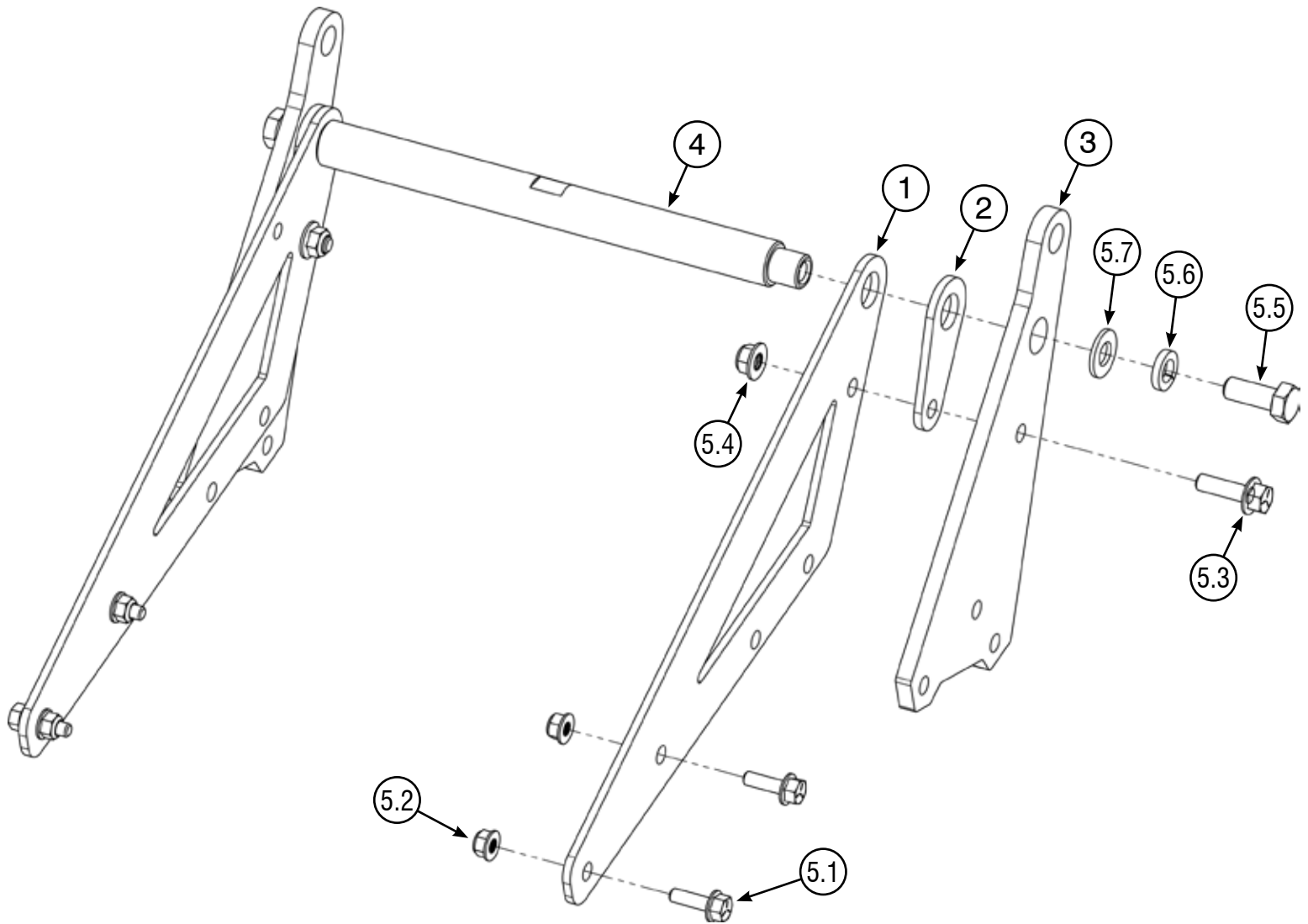


PRO 2.0 - 6 INCH LEVELING KIT

Plow Accessory

PART #106326 Rev C



Kit Components:

Item #	Qty.	Description	Item #	Qty.	Description
1	2	6" Gusset Plate (106448)	5.2	4	5/16"-18 Hex Flange Nylock Nut
2	2	Level Kit Spacer (106329)	5.3	2	3/8"-16 x 1.25" Hex Bolt Flange
3	2	6" Level Ear (106328)	5.4	2	3/8"-16 Hex Flange Nylock Nut
4	1	Level Kit Rod (106399)	5.5	2	1/2"-13 X 1.25" Hex Bolt
5	1	Hardware Kit (HK-446)	5.6	2	1/2" Lock Washer
5.1	4	5/16"-18 X 1.00" Hex Bolt Flange	5.7	2	1/2" Flat Washer



INSTALLATION INSTRUCTIONS

Notice

Torque bolts to ANSI Specs (or OEM specs if applicable), unless otherwise stated. After the first use and at the start of each season, check torque.

Note: Make sure all hardware needed to complete this mount is in the package. Thoroughly read through and understand the instructions before installing.

Installation Instructions

1. If installed, remove pin attachment brackets (C) and hardware (A and B) as shown in **Figure 1**. If not installed, proceed to **Step 2**.

Note: Save hardware (A and B) for reuse in Step 5.

2. Loosely assemble gusset (1), spacer (2), and ear (3) onto rod (4) using bolts (5.5), lock washers (5.6), and flat washers (5.7). Refer to **Figure 2** for orientation.
3. Loosely install bolts (5.3) and lock nuts (5.4) through the ear (3), spacer (2), and gusset (1). See **Figure 2**.
4. Place the subassembly onto the push tube. Ensure gusset (1) is placed inside the rib on the push tube. Loosely install front bolts (5.1) and lock nuts (5.2) as shown in **Figure 3**.
5. Reinstall bolts (A) and nuts (B) removed in **Step 1** into their original positions. See **Figure 4**.
6. Once all hardware is started, tighten all hardware evenly. See **Figure 5**.

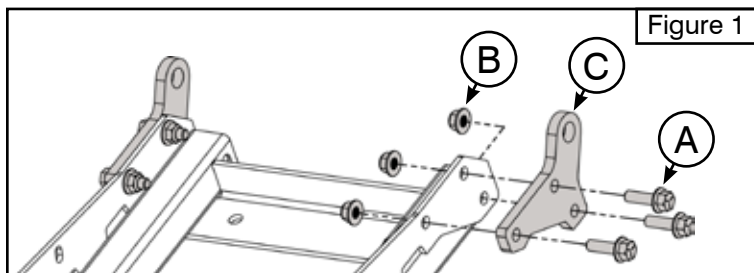


Figure 1

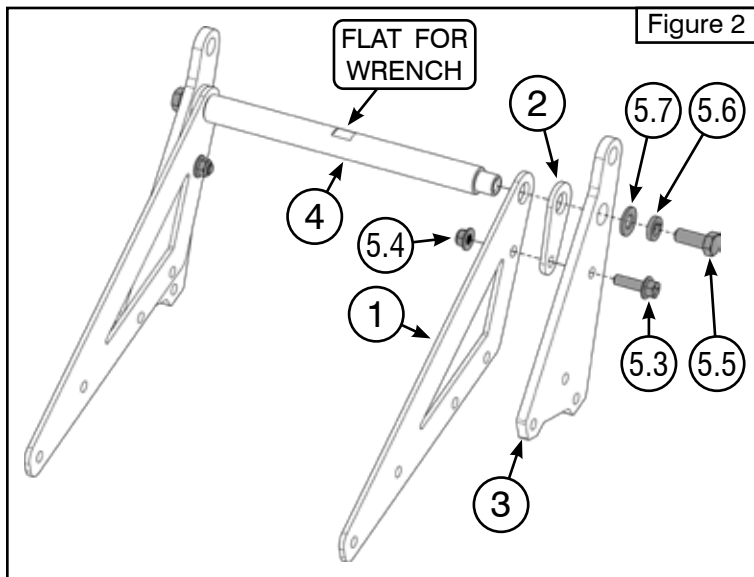


Figure 2

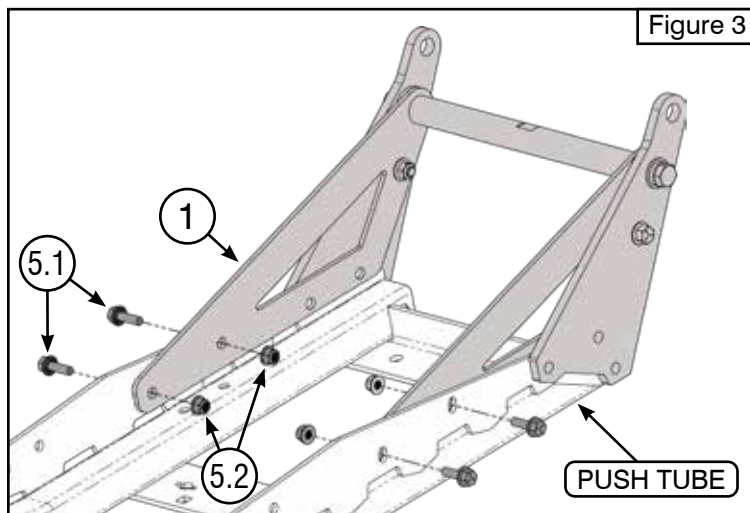


Figure 3

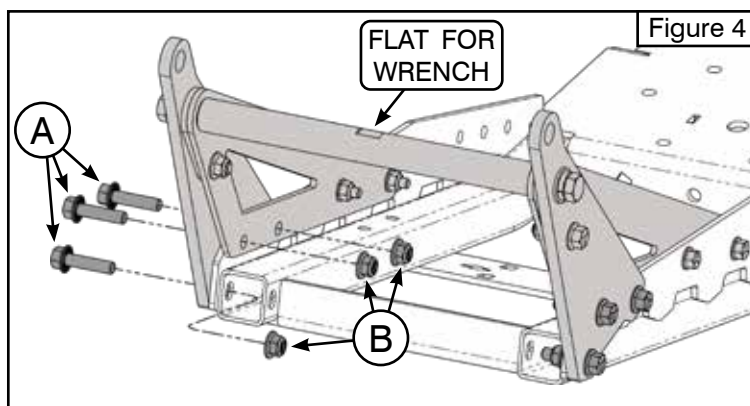


Figure 4

Note: When tightening bolts (5.5), use a 7/8" wrench or an adjustable wrench on the flat spot of rod (4) to prevent it from rotating. See **Figures 2 and 4**.

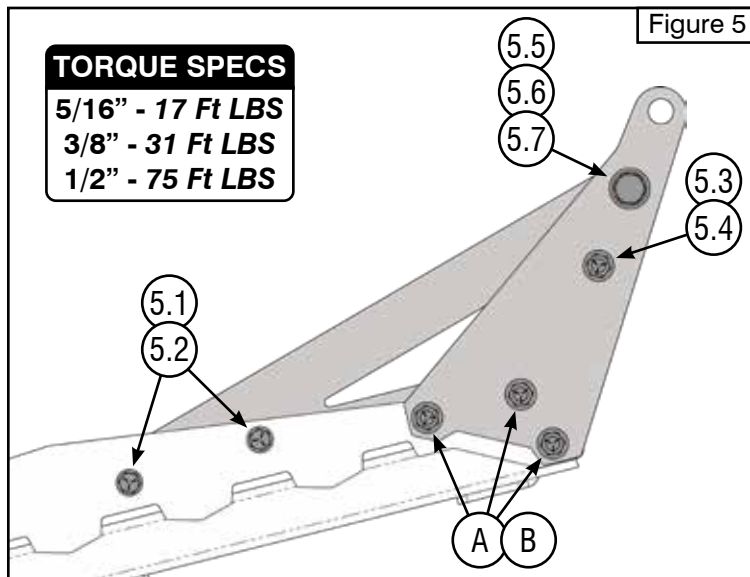


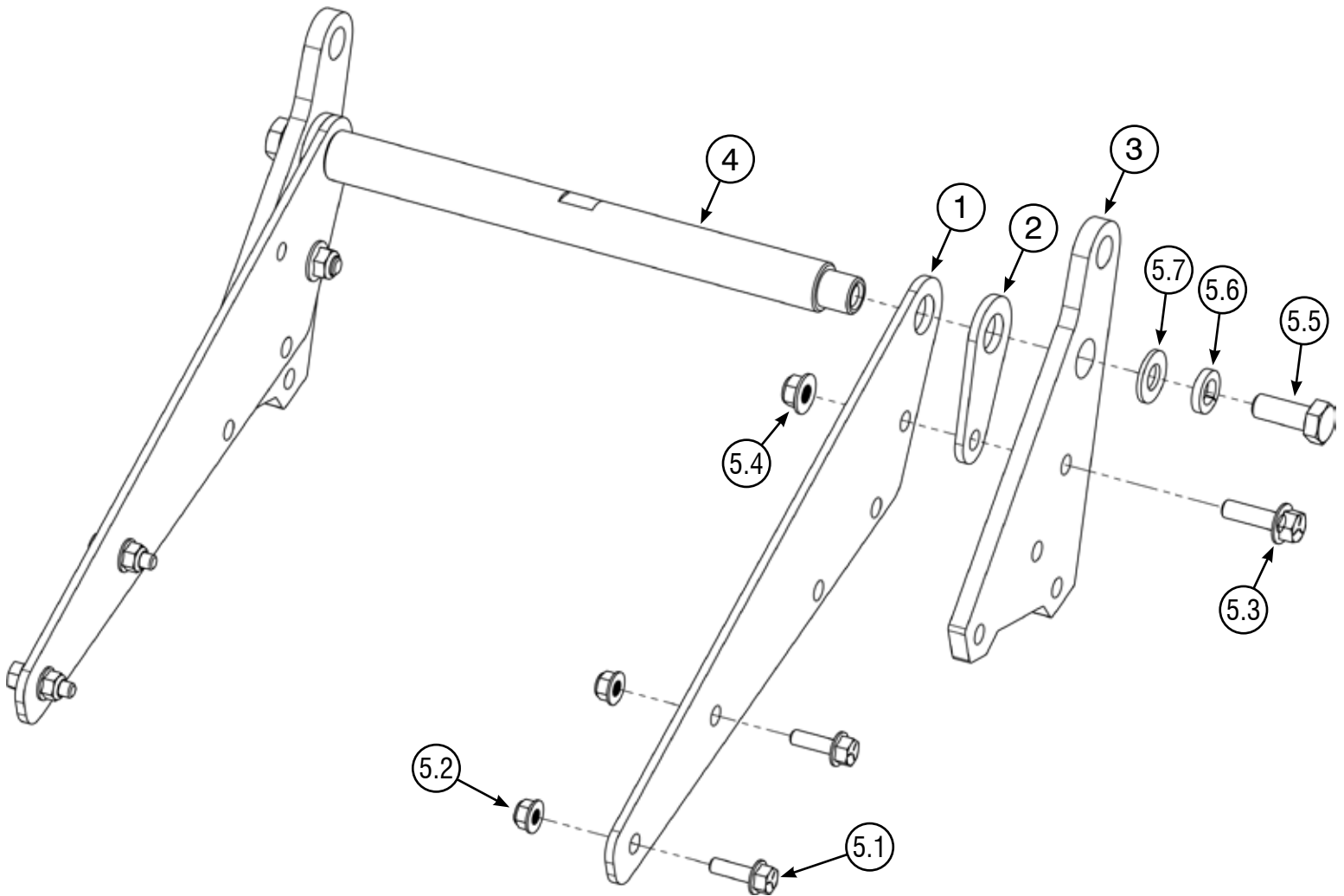
Figure 5

TORQUE SPECS
5/16" - 17 Ft LBS
3/8" - 31 Ft LBS
1/2" - 75 Ft LBS

PRO 2.0 - 4 INCH LEVELING KIT

Plow Accessory

PART #106324 Rev C



Kit Components:

Item #	Qty.	Description	Item #	Qty.	Description
1	2	4" Gusset Plate (106434)	5.2	4	5/16"-18 Hex Flange Nylock Nut
2	2	Level Kit Spacer (106329)	5.3	2	3/8"-16 x 1.25" Hex Bolt Flange
3	2	4" Level Ear (106318)	5.4	2	3/8"-16 Hex Flange Nylock Nut
4	1	Level Kit Rod (106399)	5.5	2	1/2"-13 X 1.25" Hex Bolt
5	1	Hardware Kit (HK-446)	5.6	2	1/2" Lock Washer
5.1	4	5/16"-18 X 1.00" Hex Bolt Flange	5.7	2	1/2" Flat Washer



INSTALLATION INSTRUCTIONS

Notice

Torque bolts to ANSI Specs (or OEM specs if applicable), unless otherwise stated. After the first use and at the start of each season, check torque.

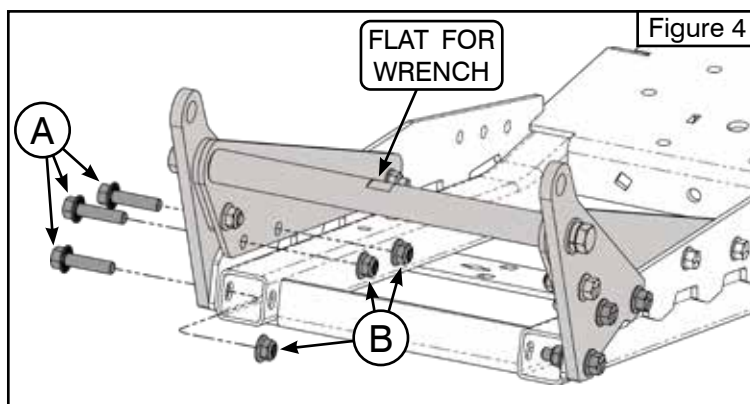
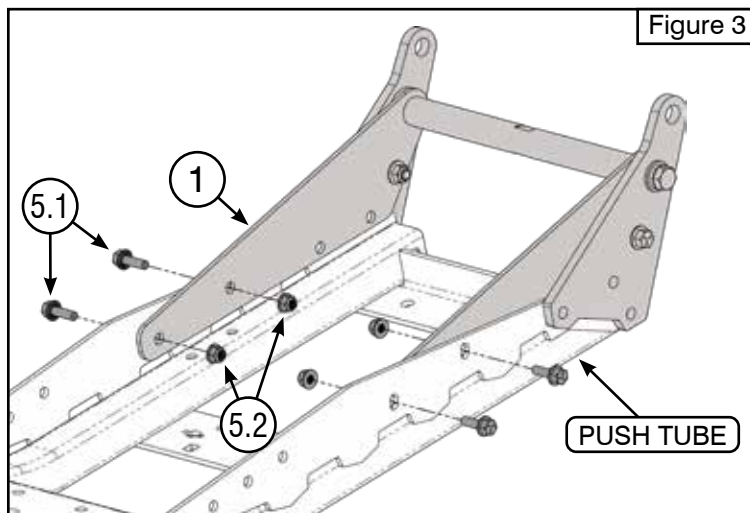
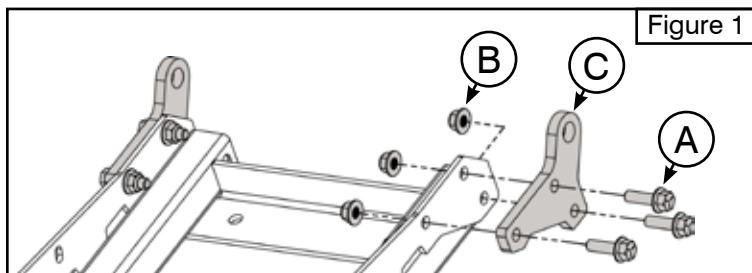
Note: Make sure all hardware needed to complete this mount is in the package. Thoroughly read through and understand the instructions before installing.

Installation Instructions

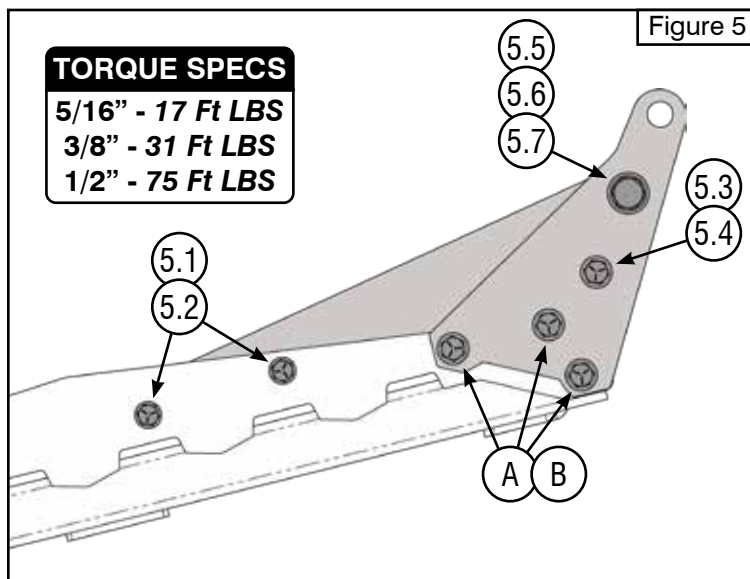
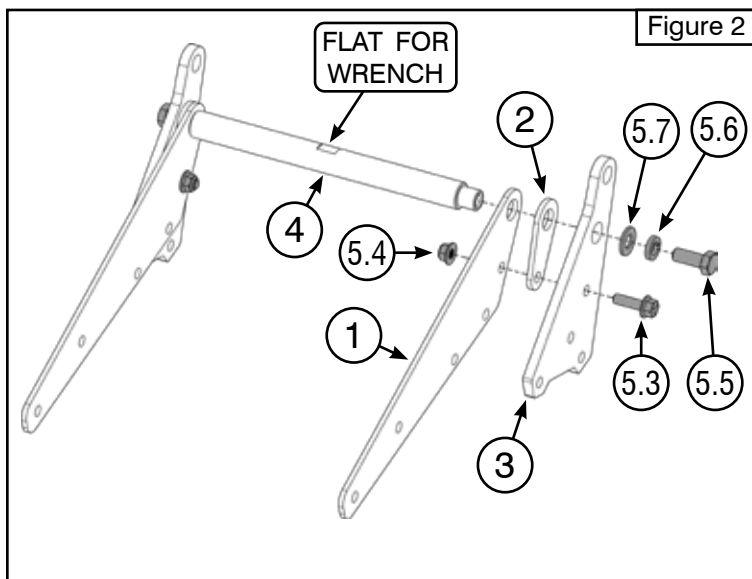
1. If installed, remove pin attachment brackets (C) and hardware (A and B) as shown in **Figure 1**. If not installed, proceed to **Step 2**.

Note: Save hardware (A and B) for reuse in Step 5.

2. Loosely assemble gusset (1), spacer (2), and ear (3) onto rod (4) using bolts (5.5), lock washers (5.6), and flat washers (5.7). Refer to **Figure 2** for orientation.
3. Loosely install bolts (5.3) and lock nuts (5.4) through the ear (3), spacer (2), and gusset (1). See **Figure 2**.
4. Place the subassembly onto the push tube. Ensure gusset (1) is placed inside the rib on the push tube. Loosely install front bolts (5.1) and lock nuts (5.2) as shown in **Figure 3**.
5. Reinstall bolts (A) and nuts (B) removed in **Step 1** into their original positions. See **Figure 4**.
6. Once all hardware is started, tighten all hardware evenly. See **Figure 5**.



Note: When tightening bolts (5.5), use a 7/8" wrench or an adjustable wrench on the flat spot of rod (4) to prevent it from rotating. See **Figures 2 and 4**.



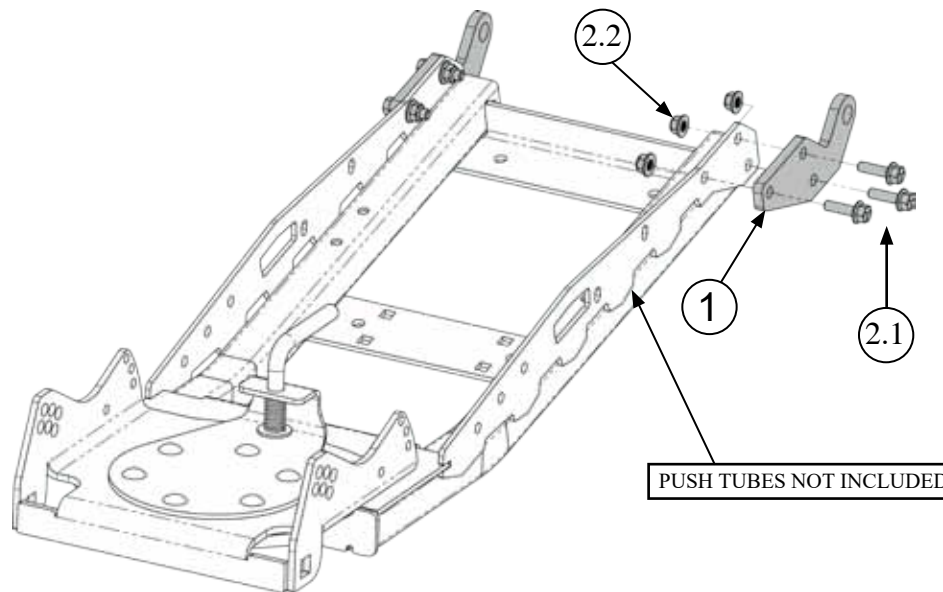
TORQUE SPECS
5/16" - 17 Ft LBS
3/8" - 31 Ft LBS
1/2" - 75 Ft LBS

NEGATIVE -1" SQ TUBE LEVELING KIT

Plow Accessory

PART #106320

Kit Components:		
Item #	Qty.	Description
1	2	-1" PIN ATTATCHMENT BRACKET
2	1	HARDWARE KIT (HK-398)
2.1	6	3/8"-16 X 1.25 HEX BOLT FLANGE
2.2	6	3/8"-16 HEX NUT FLANGE NYLOCK



INSTALLATION INSTRUCTIONS

1. Remove current standard attachment brackets and discard hardware
2. Fasten the pin attachment brackets (1) to the push tubes using bolts (2.1) and nuts (2.2) as shown in image above.
3. Torque 3/8" bolts to 31lb-ft

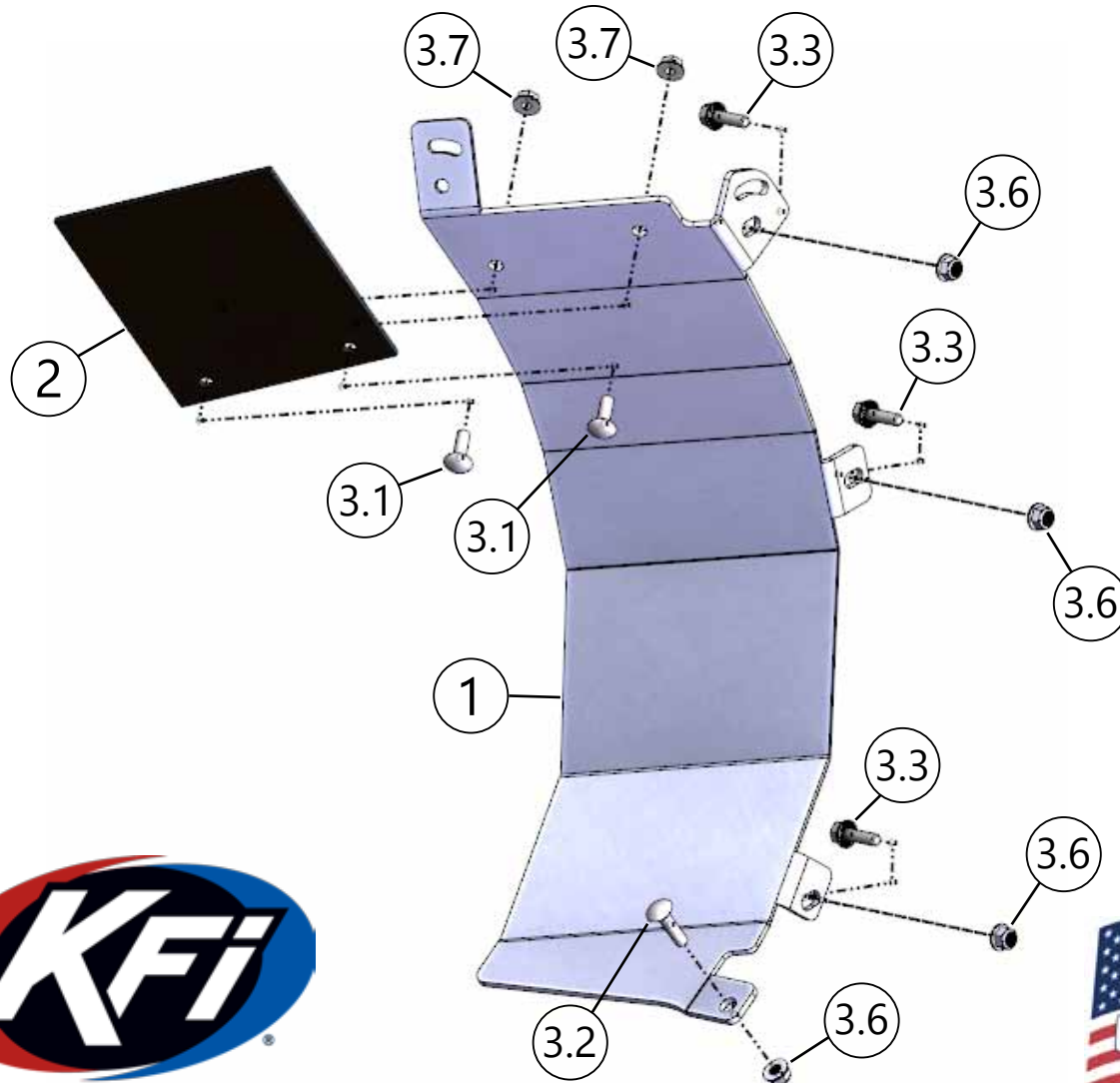


Poly-Pro Tapered Shield

Plow Accessory

PART #106115

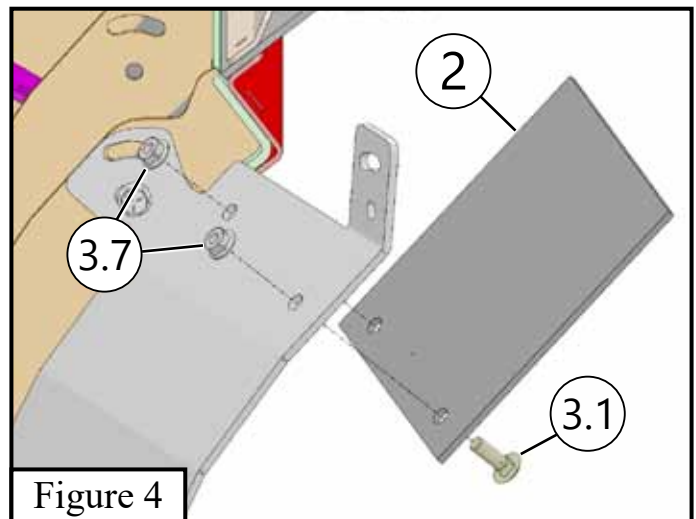
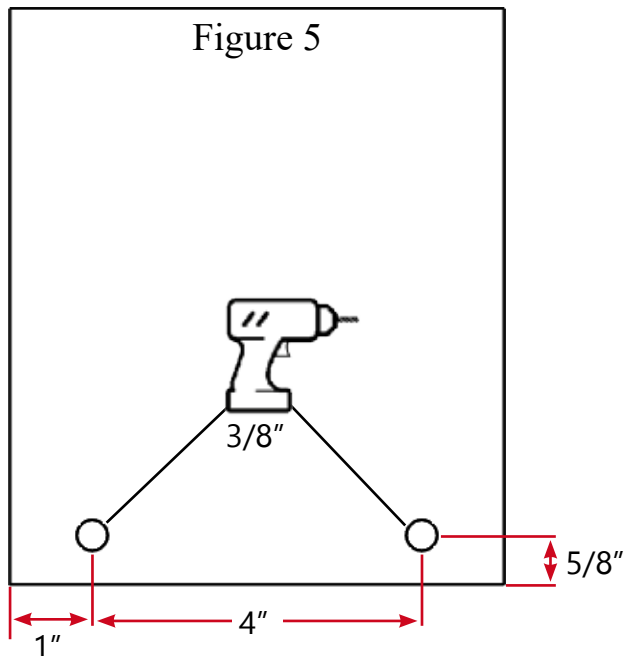
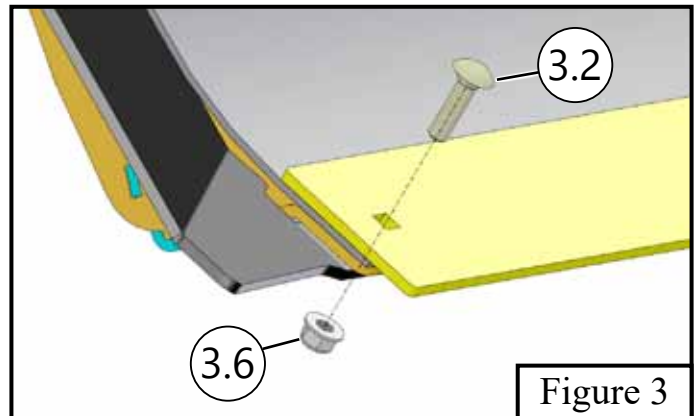
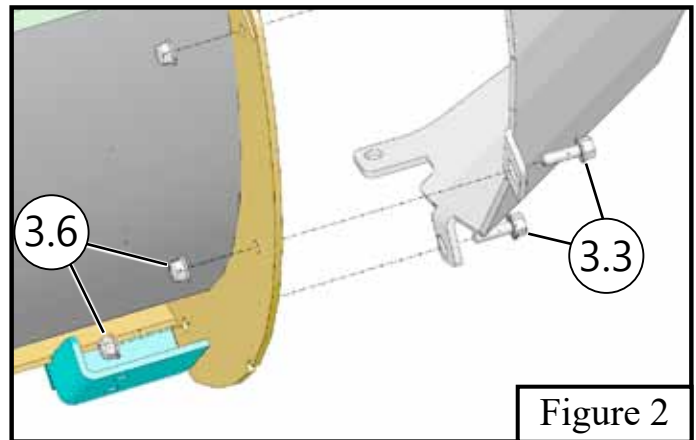
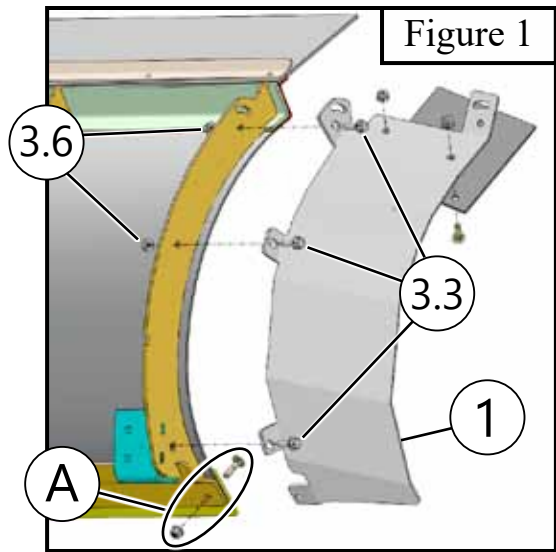
Kit Components:		
Item #	Qty.	Description
1	1	Poly Plow Shield Passenger Side
2	1	Pro Poly Wing Flap
3	1	HK-364
3.1	2	5/16"-18 x 1.00" Carriage Bolt
3.2	1	5/16"-18 x 1.25" Carriage Bolt
3.3	3	5/16"-18 x 1.00" Hex Flange Bolt
3.4	2	5/16"-18 x 1.75" Hex Flange Bolt (not used)
3.5	1	5/16"-18 x 2.00" Hex Flange Bolt (not used)
3.6	6	5/16"-18 Hex Flange Nylock Nut
3.7	2	5/16"-18 Serr Hex Flange Nut



INSTALLATION INSTRUCTIONS:

Note: Make sure all hardware needed to complete this mount is in the package. Thoroughly read through and understand the instructions before installing.

1. Remove and discard the outermost wear bar carriage bolt (A) on the passenger side of the plow as shown in **Figure 1**.
2. Hold Side Shield (1) in place on passenger side of the blade and secure using 5/16 bolts (3.3) and 5/16 nuts (3.6) as shown in **Figure 1 & 2**. **Note:** Do not tighten at this time.
3. Once Side Shield is in place, secure wear bar and side shield using the 5/16 bolt (3.2) and 5/16 nut (3.6) as shown in **Figure 3**.
4. If holes are not already in the flap, use the dimensions in Figure 5 to drill two holes in the wing flap (2) using a 3/8" drill bit.
5. Hold Wing Flap (2) in place and secure using 5/16 bolts (3.1) and 5/16 nuts (3.6) as shown in **Figure 4**.
6. Tighten all hardware evenly.

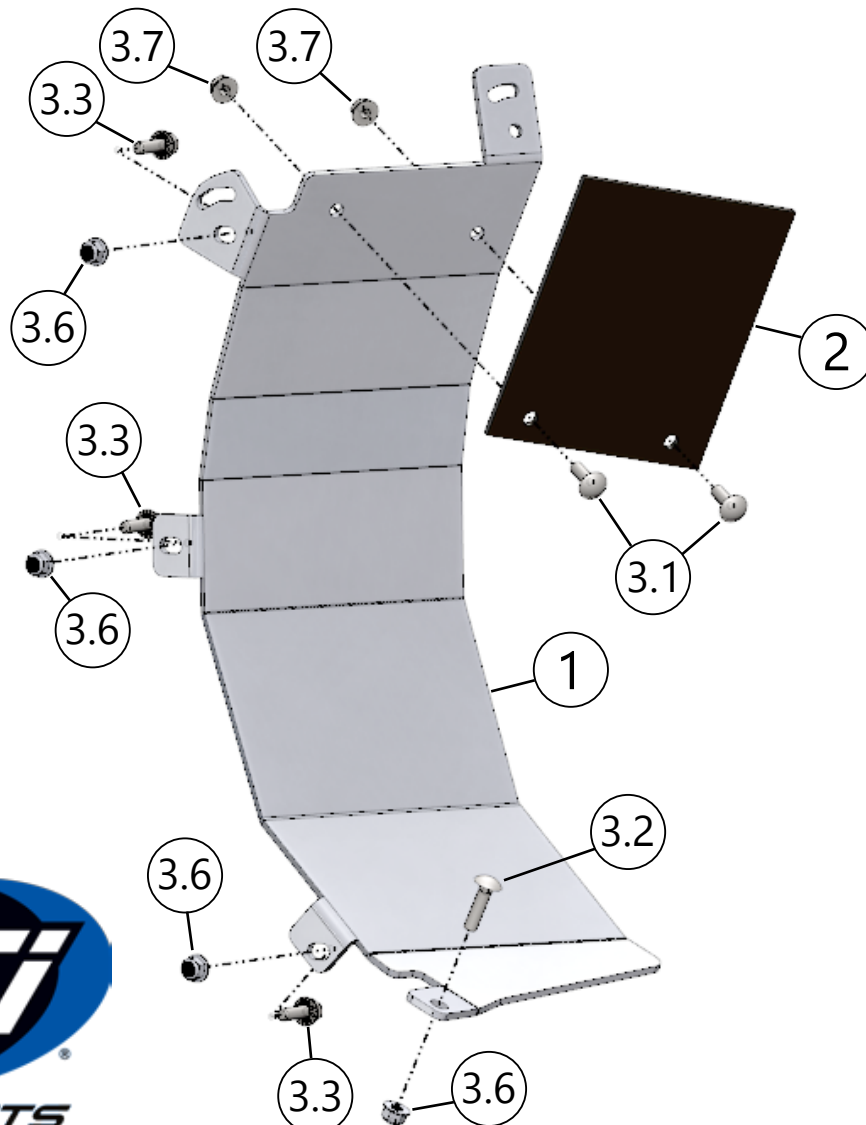


Poly-Pro Tapered Shield

Plow Accessory

PART #106110

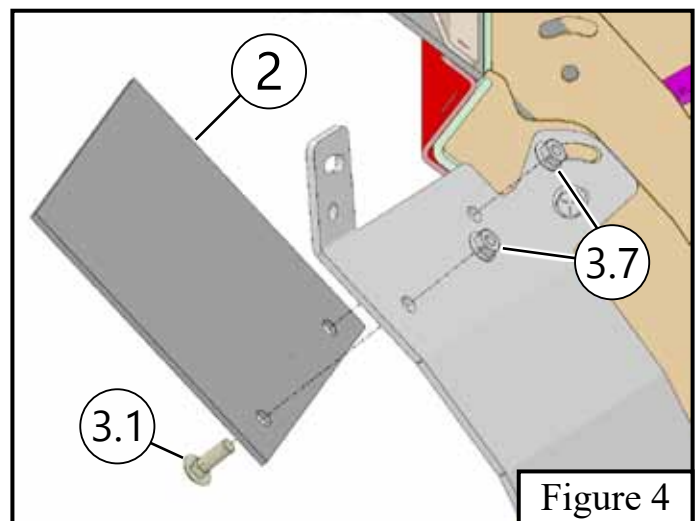
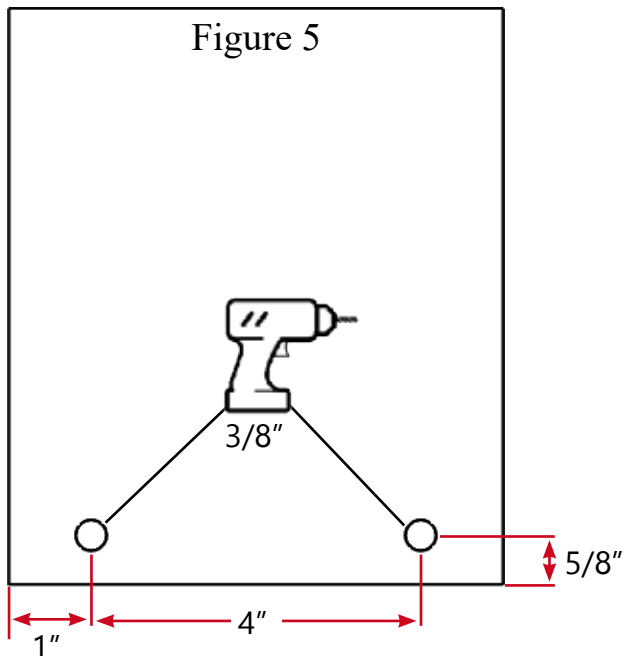
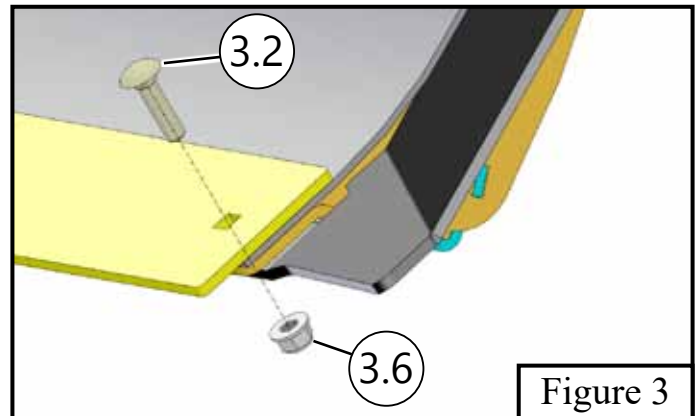
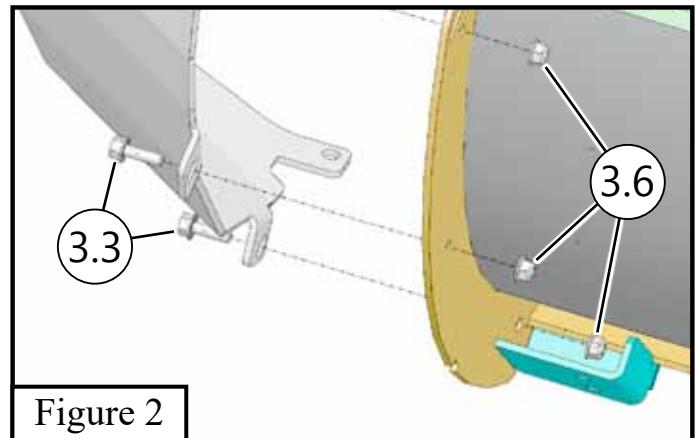
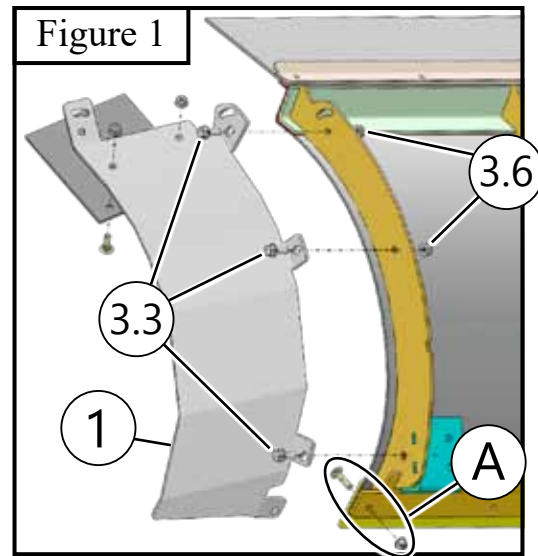
Kit Components:		
Item #	Qty.	Description
1	1	Poly Plow Shield Driver Side
2	1	Pro Poly Wing Flap
3	1	HK-364
3.1	2	5/16"-18 x 1.00" Carriage Bolt
3.2	1	5/16"-18 x 1.25" Carriage Bolt
3.3	3	5/16"-18 x 1.00" Hex Flange Bolt
3.4	2	5/16"-18 x 1.75" Hex Flange Bolt (not used)
3.5	1	5/16"-18 x 2.00" Hex Flange Bolt (not used)
3.6	6	5/16"-18 Hex Flange Nylock Nut
3.7	2	5/16"-18 Serr Hex Flange Nut



INSTALLATION INSTRUCTIONS:

Note: Make sure all hardware needed to complete this mount is in the package. Thoroughly read through and understand the instructions before installing.

1. Remove and discard the outermost wear bar carriage bolt (A) on the driver side of the plow as shown in **Figure 1**.
2. Hold Side Shield (1) in place on driver side of the blade and secure using 5/16 bolts (3.3) and 5/16 nuts (3.6) as shown in **Figure 1 & 2**. **Note:** Do not tighten at this time.
3. Once Side Shield is in place, secure wear bar and side shield using the 5/16 bolt (3.2) and 5/16 nut (3.6) as shown in **Figure 3**.
4. If holes are not already in the flap, use the dimensions in Figure 5 to drill two holes in the wing flap (2) using a 3/8" drill bit.
5. Hold Wing Flap (2) in place and secure using 5/16 bolts (3.1) and 5/16 nuts (3.6) as shown in **Figure 4**.
6. Tighten all hardware evenly.



PRO SERIES PLOW SIDE SHIELD

Plow Accessory

PART # 105540

Hardware Kit: HK-105

Kit Components:

Qty. Part Description

- 1..... Plow Side Shield
- 1..... Upper Shield Bracket (triangle)
- 1..... Middle Shield Bracket (round)
- 1..... Lower Shield Bracket (square)
- 8..... 5/16"-18 x 1.00" Carriage Bolt (E)
- 1..... 5/16"-18 x 1.25" Carriage Bolt (F)
- 8..... 5/16"-18 Nylock Flanged Nut

INSTALLATION INSTRUCTIONS:

1. Cut out Template printed on Page 2 and mark holes to be drilled using the template. *If you only intend to install one shield, decide which end best suits your purpose. **Note:** See Page 3 for template placement.*
2. Using a 21/64" up to 3/8" bit, drill the holes through your plow blade in marked locations.

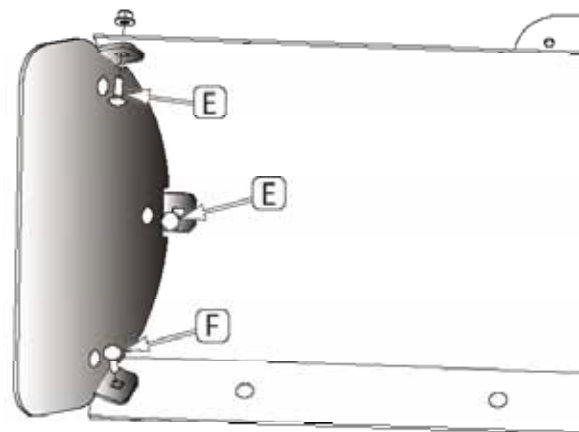
Note: It is always best practice to drill a smaller pilot hole before drilling a large hole in steel.

3. Install the UPPER (A), MIDDLE (B) and LOWER (C) brackets to the side shield using the 1" carriage bolts and nuts. See **Figure 2** for bracket difference chart. Side Shield has a notch (D) that indicates the bottom. This notch allows clearance for the wear bar. See **Figure 3** for proper right and left install.

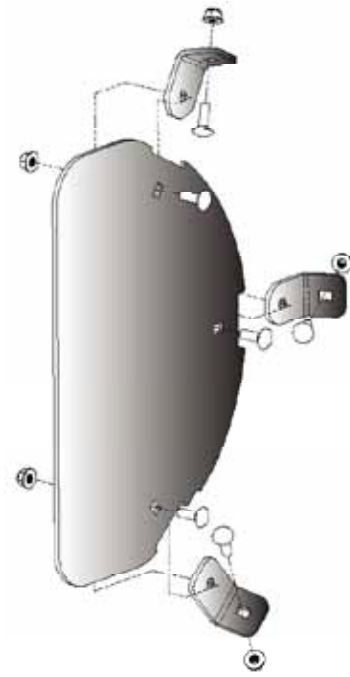
Note: these brackets have specific angles for each location and can NOT be installed in a different location, also the shield can

NOT be installed upside down.

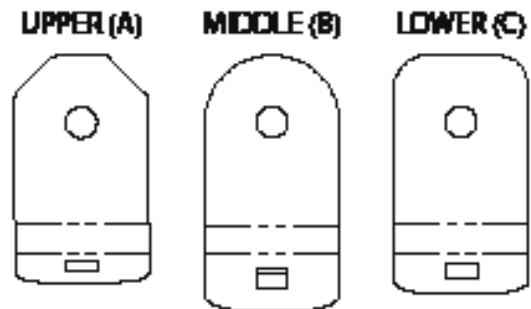
4. Install Side Shield Assembly to plow blade using carriage bolts and nuts. The UPPER and MIDDLE brackets will use 1" carriage bolts (E) and the LOWER bracket will use the 1-1/4" carriage bolt (F).



“Figure 4 Blade Install”



“Figure 1”



“Figure 2 Bracket Difference Chart”



“Figure 3 Bracket Install”





PASSENGER SIDE

SIDE B



INSTRUCTIONS

1. Verify template is to scale by measuring above line is EXACTLY 1 INCH. (See Figure 1).
2. Cut out all dotted line areas on template. Cut very bottom if no wear bar is installed. Cut second line from bottom if wear bar is installed (wear bar must not be worn on surface template contacts).
3. Line up BOTTOM of drill template with the top edge of the wear bar or wearbar bolt hole.
4. Line up SIDE B with the edge of your blade. See Page 3.
5. Tape the template flush against the curved surface of the plow blade.
6. Mark holes that are indicated for drilling with a center punch. If no center punch is available cut out the holes and mark with a marker.
7. Drill holes using required drill bit.

LINE UP WITH TOP OF WEAR BAR



DRIVER SIDE

SIDE B



INSTRUCTIONS

1. Verify template is to scale by measuring above line is EXACTLY 1 INCH. (See Figure 1).
2. Cut out all dotted line areas on template. Cut very bottom if no wear bar is installed. Cut second line from bottom if wear bar is installed (wear bar must not be worn on surface template contacts).
3. Line up BOTTOM of drill template with the top edge of the wear bar or wearbar bolt hole.
4. Line up SIDE B with the edge of your blade. See Page 3.
5. Tape the template flush against the curved surface of the plow blade.
6. Mark holes that are indicated for drilling with a center punch. If no center punch is available cut out the holes and mark with a marker.
7. Drill holes using required drill bit.

LINE UP WITH TOP OF WEAR BAR

FRONT CURVED SURFACE

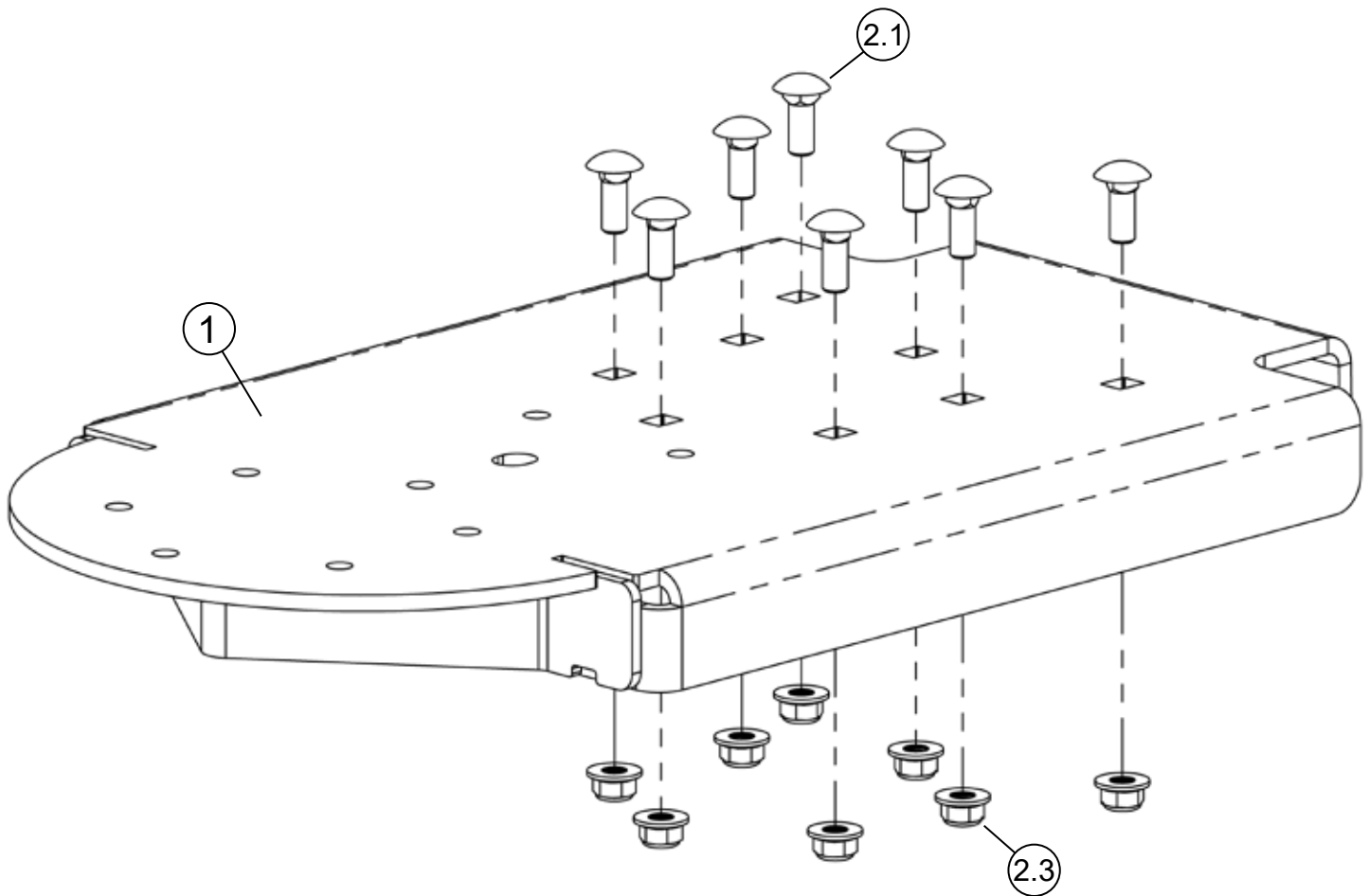
EDGE OF BLADE

UTV Plow Track Extension

Plow Accessory

PART #106330 Rev D

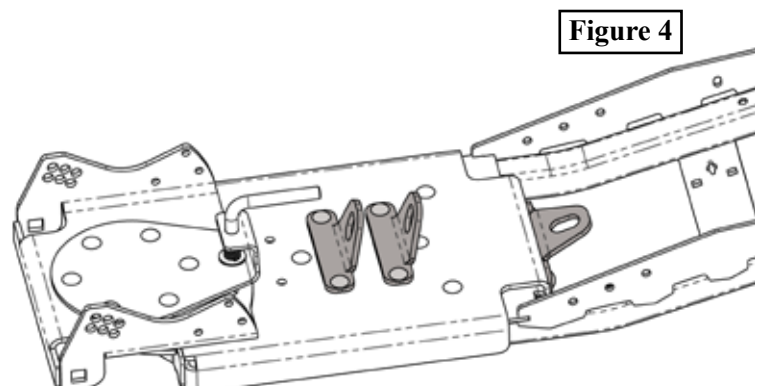
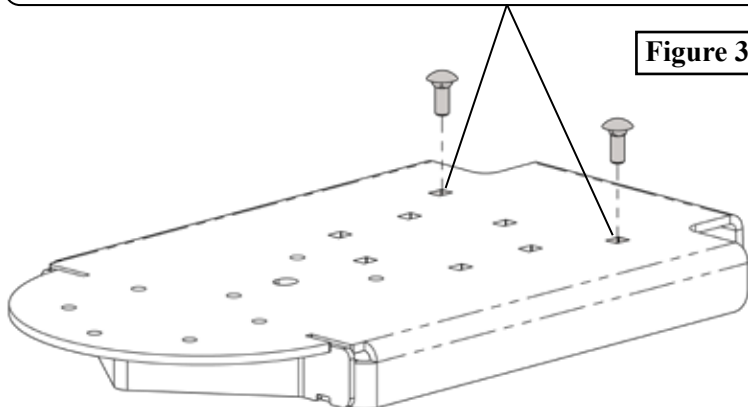
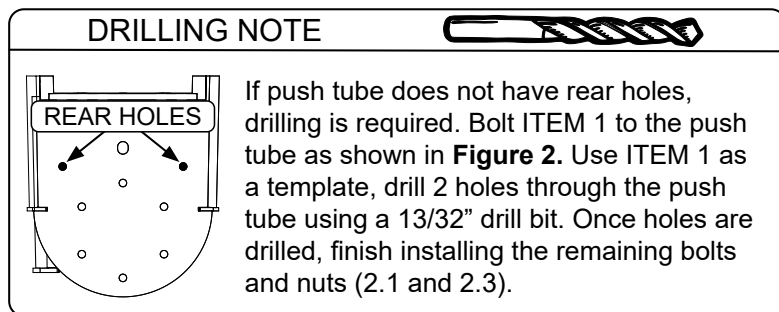
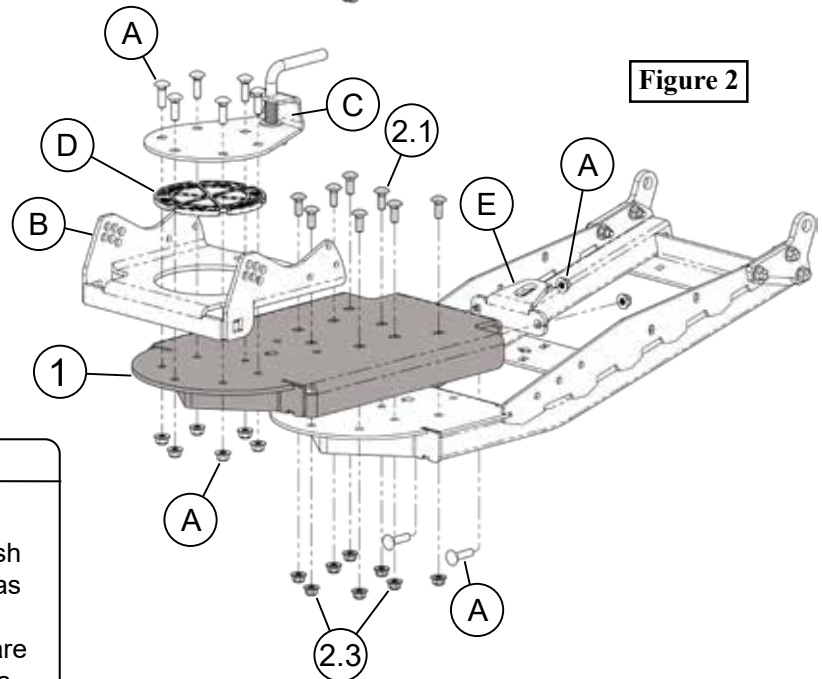
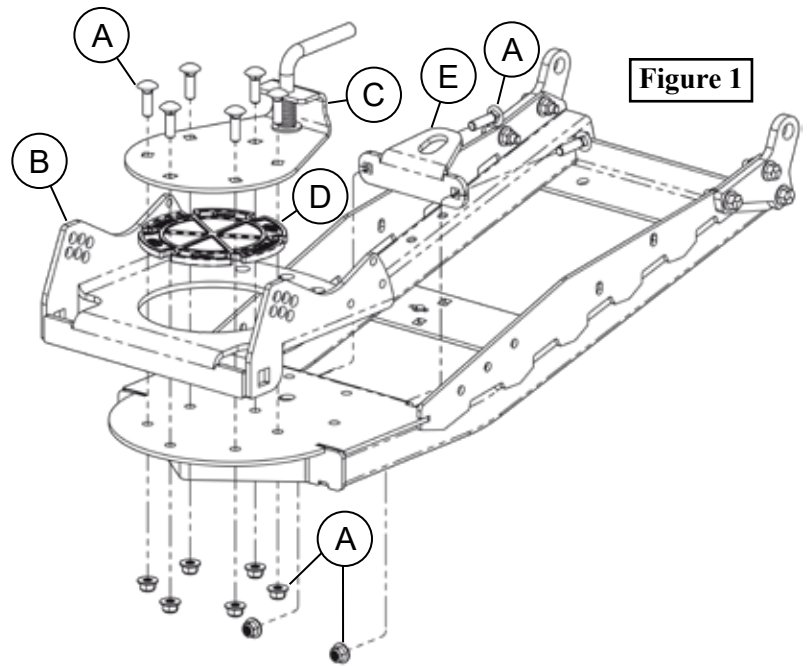
Kit Components:		
Item #	Qty.	Description
1	1	Push Tube Track Extension
2	1	Hardware Kit (HK-393)
2.1	8	3/8"-16 x 1.00 Carriage Bolt
2.2	2	3/8"-16 x 1.50 Carriage Bolt (NOT USED)
2.3	10	3/8"-16 Hex Flange Nylock Nut (NOT ALL USED)



INSTALLATION INSTRUCTIONS

Note: Make sure all hardware needed to complete this mount is in the package. Thoroughly read through and understand the instructions before installing.

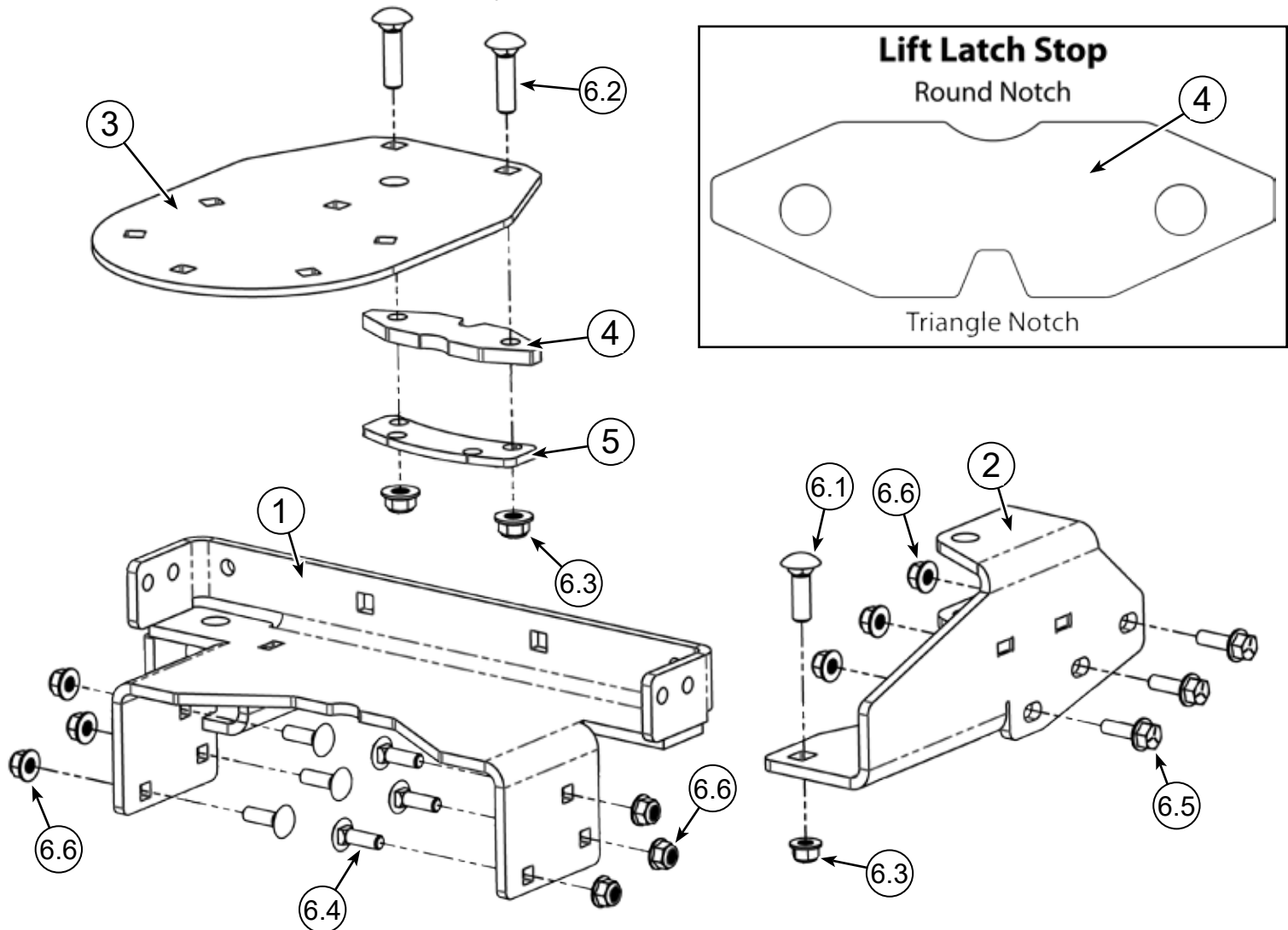
1. Unbolt hardware (A) and remove cradle (B), Lift latch assembly (C), pivot bushing (D), cable hook bracket (E) shown in **Figure 1**.
2. Reinstall pivot bushing (D), lift latch assembly (C), cradle (B), and cable hook bracket (E) using hardware (A) removed in step 1 onto UTV Track Extension (1) as shown in **Figure 2**.
3. Install UTV Track Extension (1) onto push tubes using bolts (2.1) and nuts (2.3) as shown in **Figure 2**.
NOTE: If the push tube does not have rear holes, drilling is required. See **Drilling Note Below**.
4. Tighten all hardware evenly.
5. The lift hook can be relocated if it gives a better lift angle from your machine, 3 options are shown in **Figure 4**.



UTV PRO 2.0 TRACK EXTENSION ACTUATOR BRACKET

Plow Accessory

PART #106335 Rev. B



Item #	Qty.	Description
1	1	Actuator Cradle Bracket
2	1	Rear Actuator Bracket
3	1	Flat Cradle Keeper
4	1	Lift Latch Stop
5	1	Track Extension Spacer
6	1	Hardware Kit (HK-406)

Item #	Qty.	Description
6.1	1	3/8"-16 x 1.25 Carriage Bolt GR5
6.2	3	3/8"-16 x 1.50 Carriage Bolt GR5 -1 NOT USED
6.3	4	3/8"-16 Hex Flange Nylock Nut -1 NOT USED
6.4	6	5/16"-18 x 1.00 Carriage Bolt GR5
6.5	3	5/16"-18 x 1.00 Hex Flange Bolt GR5
6.6	9	5/16"-18 Hex Flange Nylock Nut

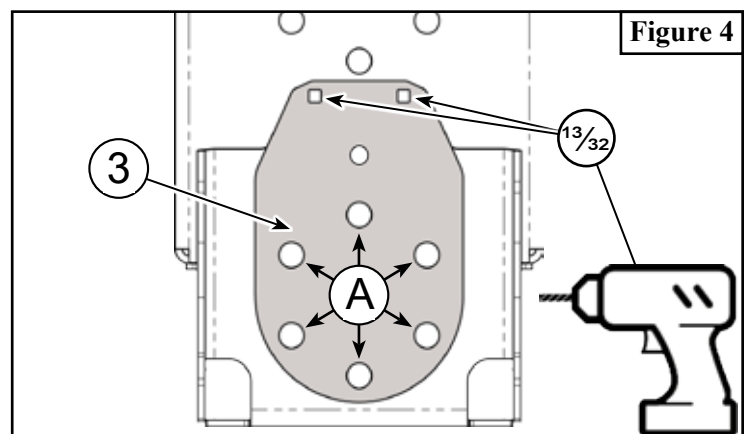
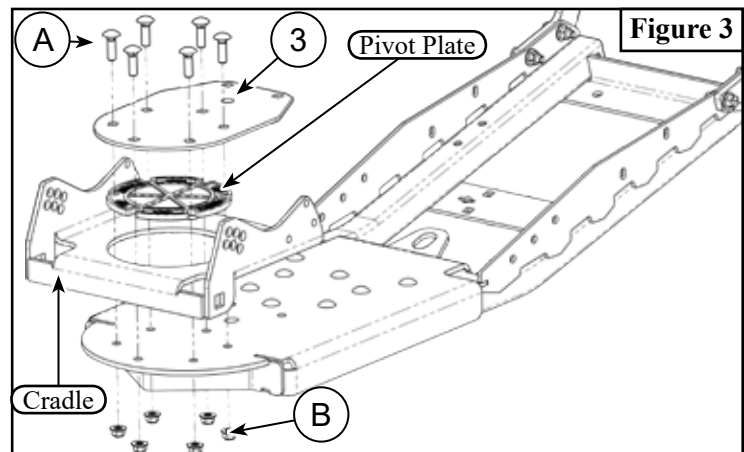
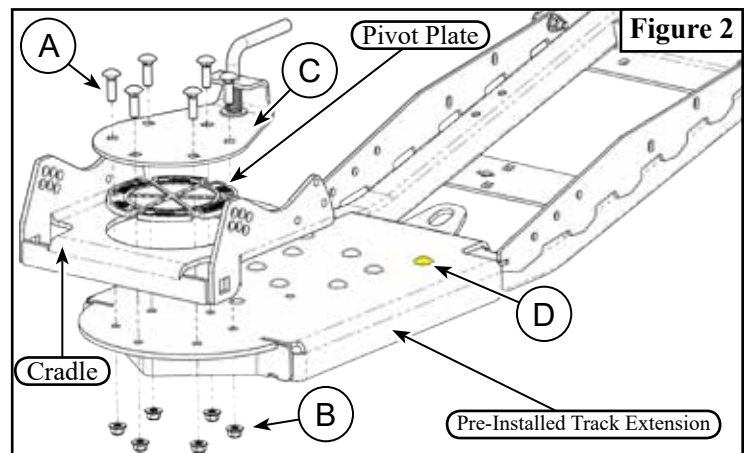
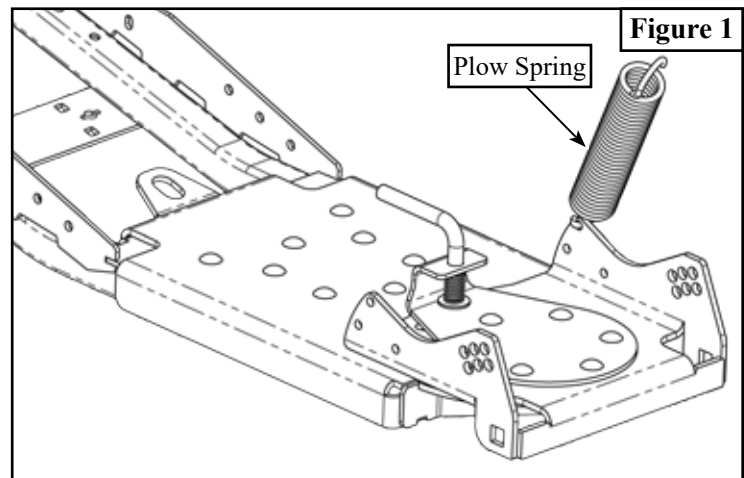


INSTALLATION INSTRUCTIONS

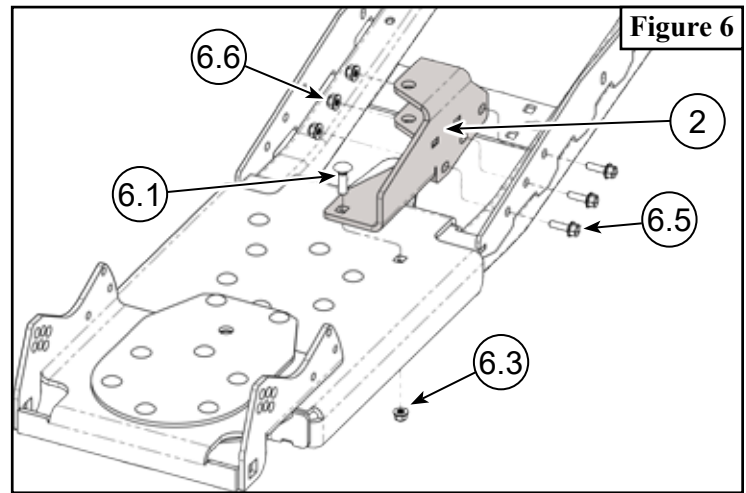
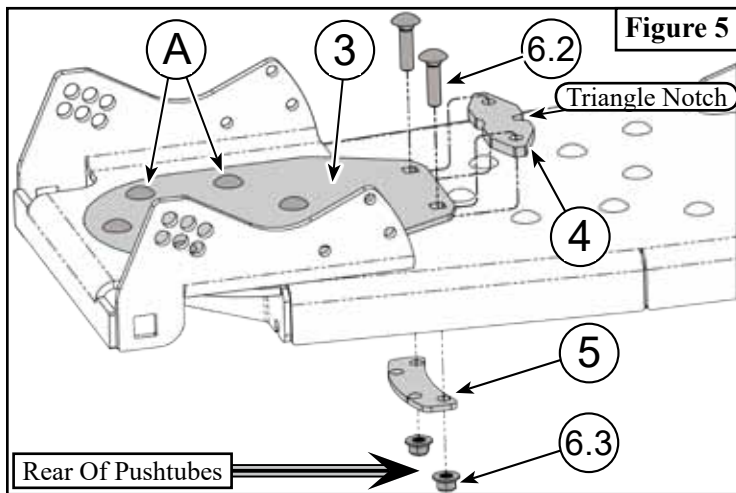
Note: Make sure all hardware needed to complete this mount is in the package. Thoroughly read through and understand the instructions before installing.

Note: This kit requires UTV Track Extension Kit #106330 (Sold Separately) to be installed prior to installing the Track Extension Actuator Brackets.

1. Remove both Plow Springs if installed. Set aside as they will be reinstalled later.
2. Remove the original Lift Lock Latch (C) by removing the 6 Bolts (A) and 6 Nuts (B) as shown in **Figure 2**. Bolt (D) can be removed and discarded.
3. Install the Flat Cradle Keeper (3) using the same 6 Bolts (A) and 6 Nuts (B) as shown in **Figure 3**. If drilling is required as shown in **Figure 4**, tighten the 6 bolts (A) evenly. If these rear holes exist through all components, leave Cradle Keeper (3) loose and skip to step 5. *Do not overtighten Bolts (A) or it may become difficult to rotate the blade.*
4. If drilling is required for the rear-most bolts in the Cradle Keeper (3), use the Cradle Keeper as a template to drill through the track extension and push tubes with a 13/32" drill bit as shown in **Figure 4**.
5. Once your rear holes are drilled, loosen the 6 bolts (A) to install the Lift Latch Stop (4) between the Flat Cradle Keeper (3) and track extension. **The triangle notch in the Lift Latch Stop (4) should be oriented towards the rear of the pushtubes (front of the machine).** See **Figure 5**. (Next Page)



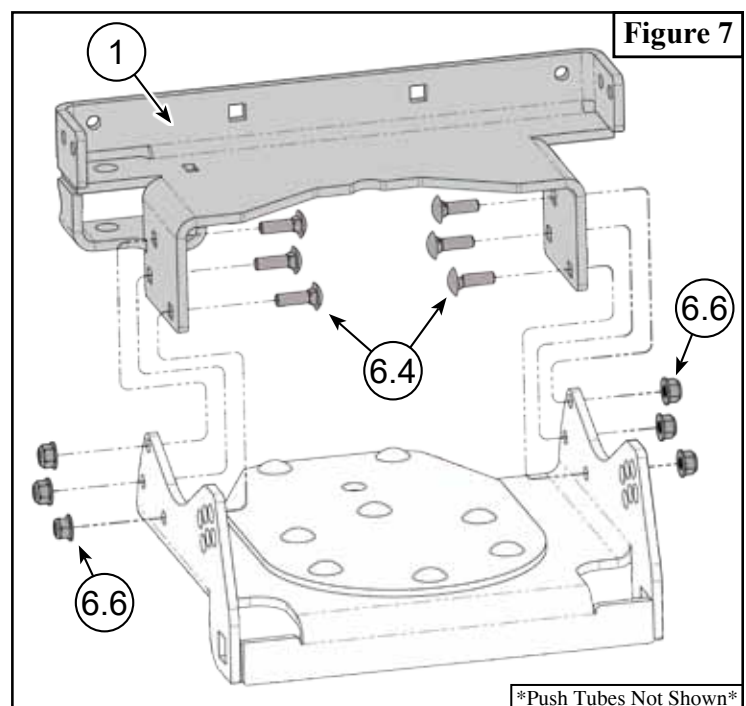
INSTALLATION INSTRUCTIONS



6. Install the Track Extension Spacer (5) under the track extension. This component should follow the contour of the push tube bulkhead, as shown in **Figure 5**. Secure all components from steps 5 and 6 with Bolts (6.2) and Nuts (6.3)

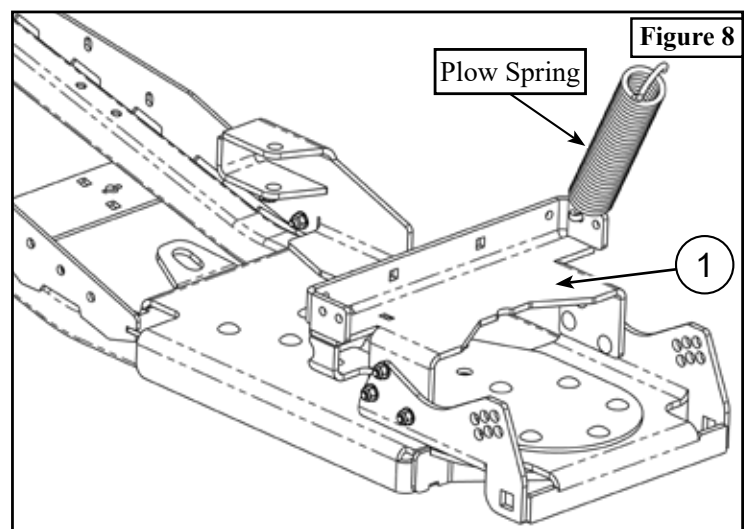
7. Set Rear Actuator Bracket (2) in place and loosely secure using Bolts (6.1, 6.5) and nuts (6.3, 6.6) as shown in **Figure 6**.

8. Set Actuator Cradle Bracket (1) inside of the cradle and loosely secure using Bolts (6.4) and Nuts (6.6) as shown in **Figure 7**.



9. Tighten all hardware evenly

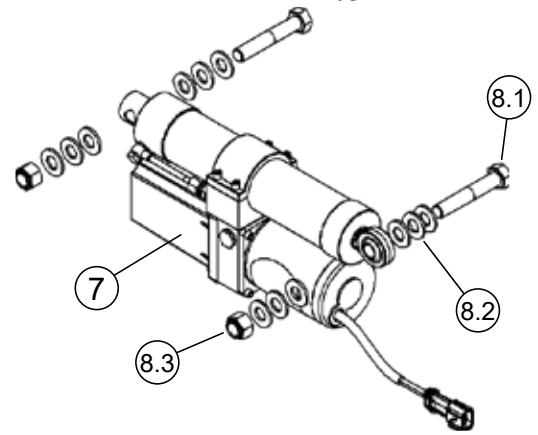
10. Plow Springs will attach to the front cradle bracket (1). The rear most hole is the stock position, as shown in **Figure 8**.



ACTUATOR INSTALLATION INSTRUCTIONS

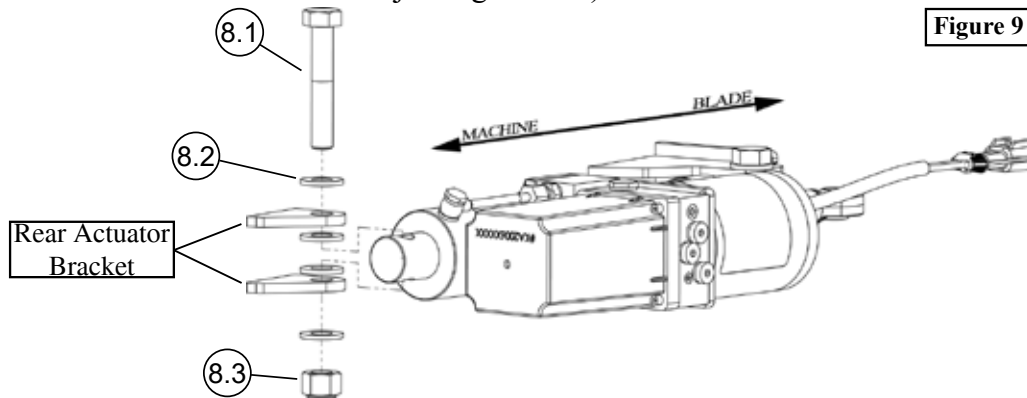
Note: Actuator is not included with this kit. Items below come with kit #ACT203

Item #	Qty.	Description
7	1	Actuator
8	1	Hardware Kit HK-381
8.1	2	M14-2.00 X 80 Hex Bolts GR8.8
8.2	12	M14 Flat Washer
8.3	2	M14 X 2.00 Hex Lock Nut



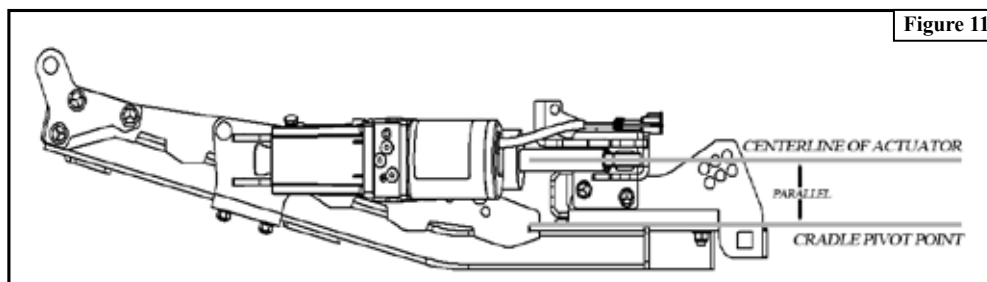
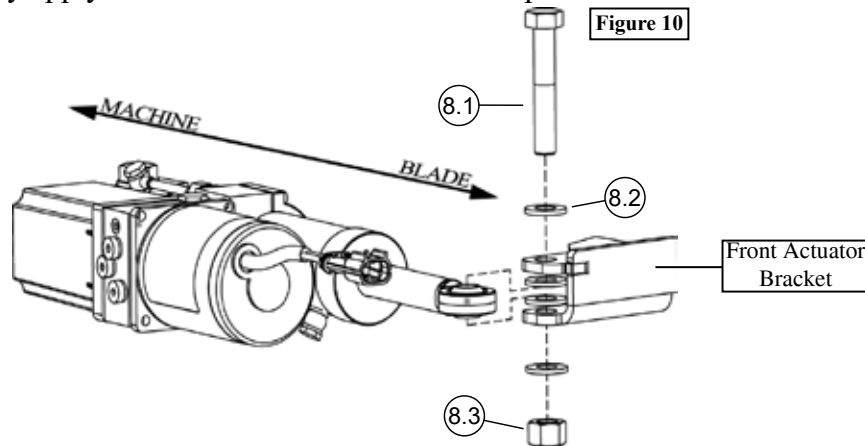
INSTALLATION INSTRUCTIONS

1. Place bolt (8.1) through flat washer (8.2), top tab of rear actuator bracket, flat washer (8.2), Hydraulic Actuator (7), flat washer (8.2), bottom tab of rear actuator bracket, and flat washer (8.2). Place nylock nut (8.3) onto bolt (8.1) as shown in **Figure 9**. (This orientation of hardware is just a guideline)



2. Repeat previous step for mounting the front half of the actuator, as shown in **Figure 10**. It is most important that you use the washers to make sure that the actuator is parallel to the cradle swivel point, as shown in **Figure 11**. Both front, and rear bolts should not be tight, thread the nut on until Nylock is fully engaged.

Note: Periodically apply lubricant to actuator attachment points.



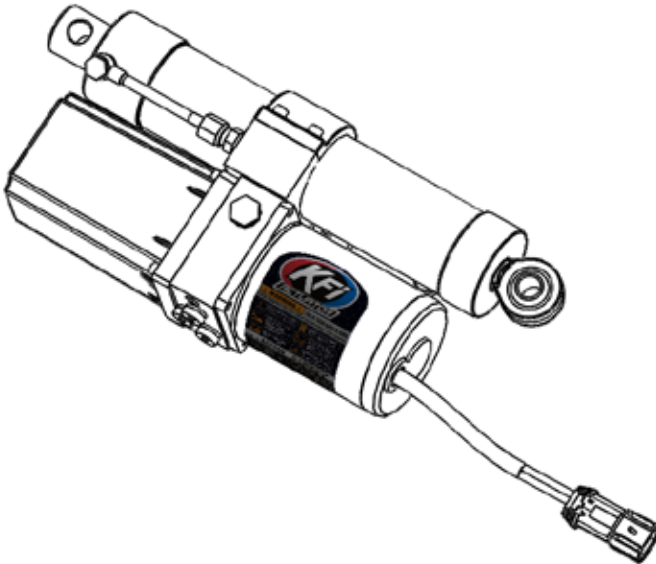


OPERATOR'S MANUAL

MODEL #ACT203

ACTUATOR

SERIAL NO. LABEL



  **1-877-346-2050**

or visit www.kfiproductions.com

READ AND SAVE THIS MANUAL. This manual contains important safety precautions which should be read and understood before operating the product. Failure to do so could result in serious injury. This manual should remain with the product. Specifications, descriptions, and illustrations in this manual are as accurate as known at the time of publication, but are subject to change without notice.

TABLE OF CONTENTS

Storage and Service.1

Important Safety Instructions.2

Introduction.3

Controls and Features4

Service Parts.5

Kit Components.6

Warranty.7

Registration Card.8

Contact Info / Safety Definitions.10

STORAGE AND SERVICE

 NOTICE

This hydraulic actuator uses an electric motor. Electric motors should be completely dried before being stored in a low humidity, temperature controlled environment whenever possible. Operating the actuator occasionally during the off-season can help the motor maintain function.

 NOTICE

The hydraulic system is sealed and should only be serviced by KFI Products. Opening the hydraulic side of this unit will introduce air into the system. Special tools are required to bleed the actuator properly.

 NOTICE

Keep your original pin for angling the blade. If this actuator needs service, your plow system can be angled manually with the original pin, a service pin, or a 9/16" bolt.

IMPORTANT SAFETY INSTRUCTIONS

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

The KFI Actuator, plow system, including the blade and push tube, is designed to be used with UTV applications. Due to the size and weight of the machine, failing to follow the below safety rules will greatly increase the chances of damaging your actuator, plow system, machine and/or winch (if applicable). KFI will not be liable for any bending of materials as it is not caused by imperfections or defects in the material but by failing to follow these safety rules:

- Do not exceed 5 MPH, even with the blade raised.
- Before every use make sure that all nuts and bolts are tightened per installation instructions.
- Never operate this KFI product with missing or damaged parts.
- Drive slowly over bumpy and rough terrain, driving fast could cause damage to actuator and/or (if applicable) plow.
- Never raise the plow above point of contact as it could cause damage to machine, actuator or winch (if applicable).
- Always perform regular inspections and maintenance on plow system and hardware before use.
- Operate with extreme caution on slopes, steep grades, and rough terrain.
- Be aware of any possible hidden objects under the snow.
- Do not ram the blade into the snow pile.

WARNING

Cancer and Reproductive Harm -
www.P65Warnings.ca.gov

WARNING

Do not exceed the rated capacity.

DANGER

Do not use this actuator for lifting or moving people or animals.

DANGER

Keep yourself and others a safe distance to the side of the actuator when in use.

DANGER

Never step over or near an actuator under load.

WARNING

The actuator may break before the motor stalls.

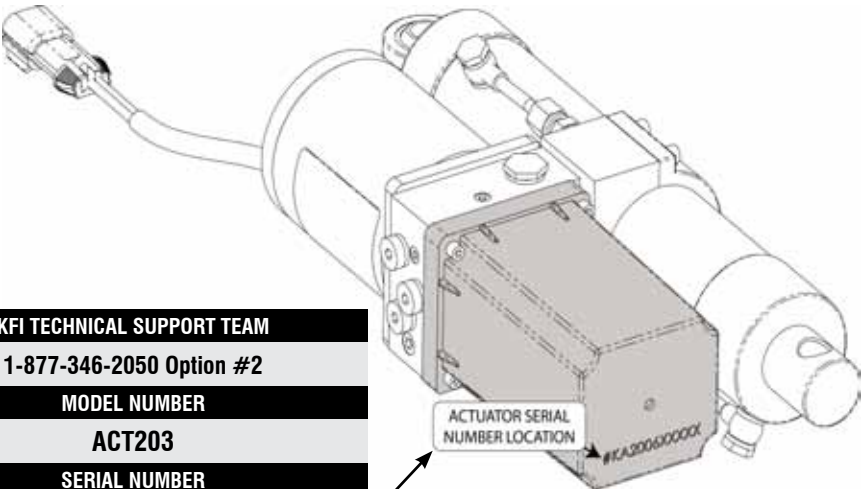
INTRODUCTION

Congratulations on your purchase of a KFI Products Actuator (Kappers Fabricating, Inc.). KFI designs, builds, and supports all of our products to strict specifications and guidelines. With proper product knowledge, safe use, regular maintenance, and proper storage, this product should bring years of satisfying service. Every effort has been made to ensure the accuracy and completeness of the information in this manual at the time of publication, and we reserve the right to change, alter and/or improve the product and this document at any time without prior notice.

Since KFI highly values how our products are designed, manufactured, operated, serviced, and also highly value your safety and the safety of others, we would like you to take the time to review this product manual and other product materials thoroughly and be fully aware and knowledgeable of the assembly, operation, dangers and maintenance of the product before use.

Fully familiarize yourself, and make sure others who plan on operating the product fully familiarize themselves too, with the proper safety and operation procedures before each use. Please always exercise common sense and always err on the side of caution when operating the product to ensure no accident, property damage, or injury occurs. We want you to continue to use and be satisfied with your KFI product for years to come.

When contacting KFI about parts and/or service, you will need to supply the complete model and serial numbers of your product. Transcribe the information found on your product's nameplate label to the table below.



KFI TECHNICAL SUPPORT TEAM
1-877-346-2050 Option #2
MODEL NUMBER
ACT203
SERIAL NUMBER
DATE OF PURCHASE
PURCHASE LOCATION

SERIAL NUMBER LOCATION



WARNING RISK OF SEVERE INJURY OR DEATH:
READ ALL PRECAUTIONS, WARNINGS, AND INSTRUCTION MANUALS BEFORE OPERATING.

- KEEP BYSTANDERS CLEAR FROM PLOW AT ALL TIMES.
- DO NOT EXCEED 5 MPH WITH PLOW INSTALLED.
- DRIVE SLOWLY OVER BUMPY / ROUGH TERRAIN. BEWARE OF OBSTRUCTIONS.
- NEVER RAISE PLOW OR ACTUATOR PAST POINT OF CONTACT. IT MAY DAMAGE YOUR PLOW SYSTEM.
- DO NOT RAM PLOW INTO THE SNOW.
- DO NOT PLACE HANDS OR FEET ON ACTUATOR. STAY CLEAR OF MOVING PARTS.

MODEL NO: ACT203 **KFI PLOW ACTUATOR**

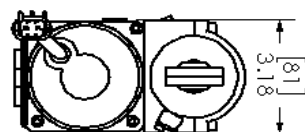
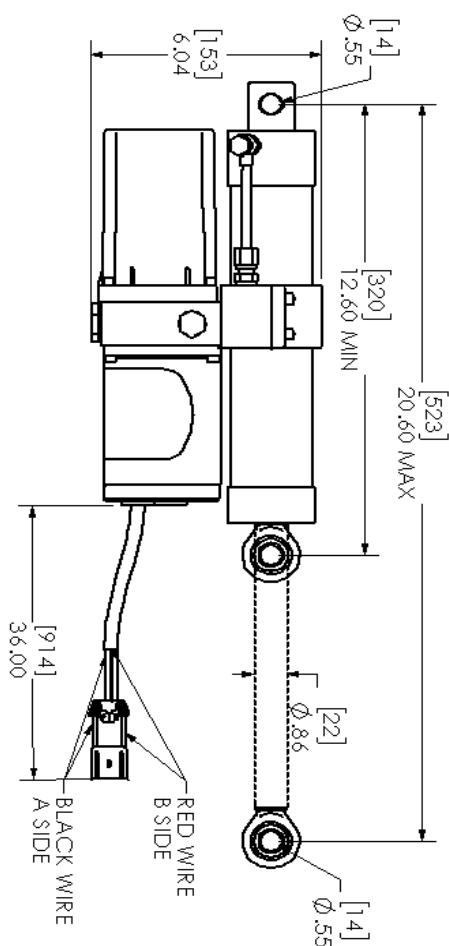
PERFORMANCE SPECS:	
VOLTAGE: DC 12V	MAX LOAD (PUSH): 1000 kg / 2205 lbs.
POWER: 0.3 kW / .4 HP	MAX LOAD (PULL): 700 kg / 1543 lbs.
CURRENT: 25A	STROKE: 203 mm / 8.00 in.
PRESSURE: 15 MPa / 2175 psi	HYDRAULIC OIL: 46W-LV (ISO 46)

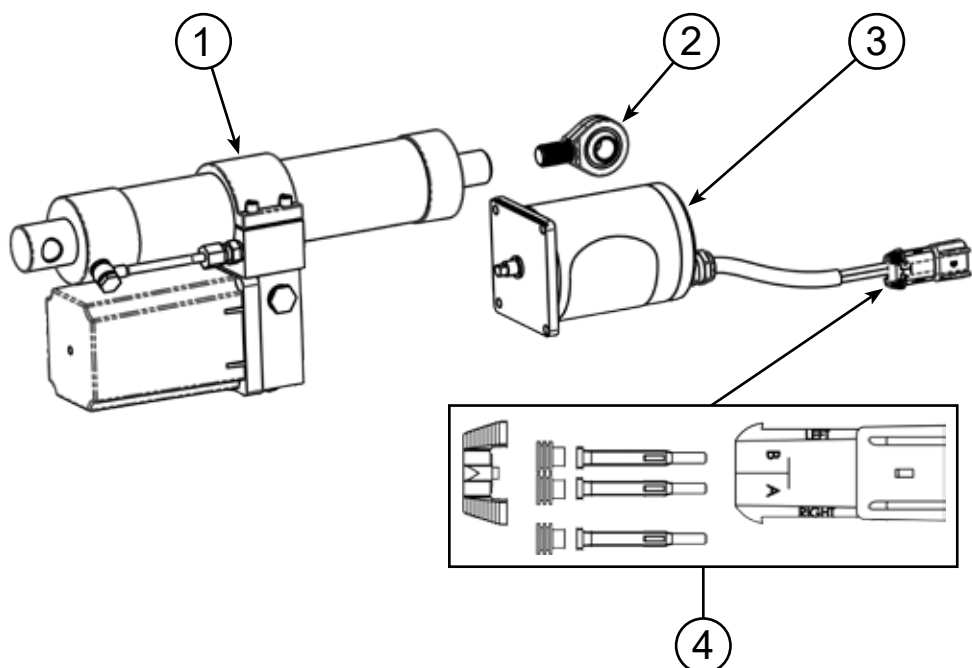
WARNING: Check and replace hydraulic oil. www.kfiproductions.com

PARTS & SERVICE:
1-877-346-2050
www.kfiproductions.com

SOLD & DISTRIBUTED BY:
KAPPERS FABRICATING, INC.
SPRING VALLEY, MN

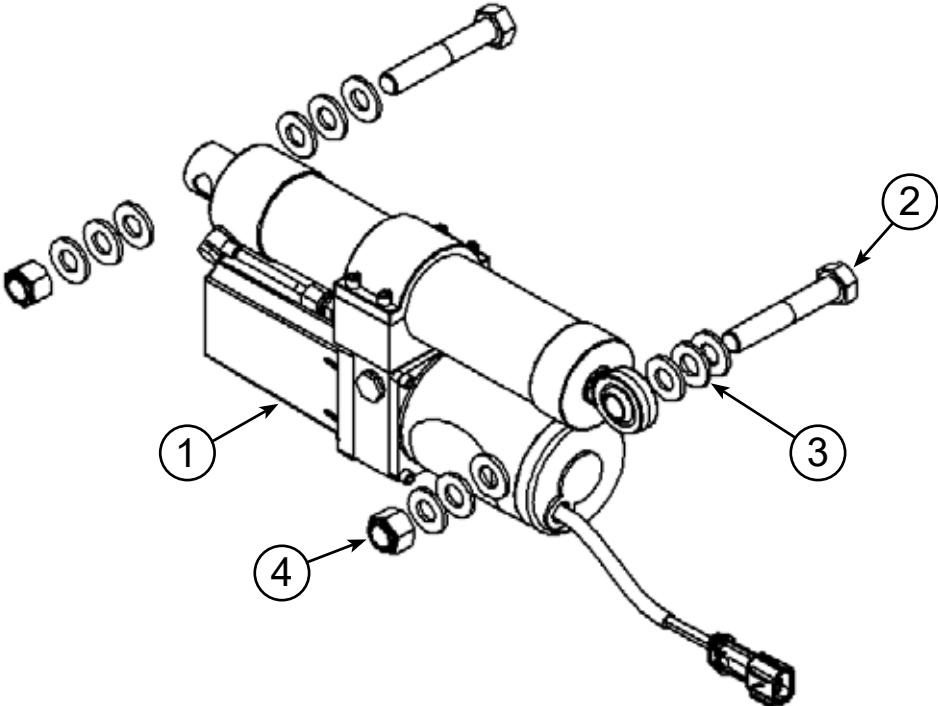
MADE IN CHINA





ACTUATOR SERVICE PARTS LIST

Item #	Part #	Description	Qty
1	ACT-0010	ACT-0010 ACTUATOR	1
2	ACT-0003	ROD END REPLACEMENT - M14x2	1
3	ACT-0004	MOTOR REPLACEMENT- TG12V HYDRAULIC ACTUATOR	1
4	PM-M280-2	ACTUATOR REPLACEMENT PLUG - METRI-PACK 280 MALE	1



KIT COMPONENTS:		
Item #	Qty.	Description
1	1	ACT-0010 ACTUATOR
2	2	M14-2.00 X 80 HEX BOLT GR8.8 ZINC
3	12	M14 FLAT WASHER ZINC
4	2	M14 x 2.00 HEX NUT NYLOCK ZINC

Warranty

KAPPERS FABRICATING, INC.
1 YEAR LIMITED WARRANTY

Warranty Qualifications

Kappers Fabricating Inc. (KFI) will register this warranty upon receipt of your Warranty Registration Card and a copy of your sales receipt from one of KFI's resale locations as proof of purchase. Please submit your warranty registration and your proof of purchase within Fifteen (15) days of the date of purchase.

Repair/Replacement Warranty

KFI warrants to the original purchaser that mechanical and electrical components will be free of defects in material and workmanship for a period of (1) year (90 days for commercial use); from the original date of purchase. Transportation charges on product submitted for repair or replacement under this warranty are the sole responsibility of the purchaser. This warranty only applies to the original purchaser and is not transferable.

Do Not Return The Unit To The Place Of Purchase

Contact KFI's Technical Service and KFI will troubleshoot any issue via phone or e-mail. If the problem is not corrected by this method, KFI will, at its option, authorize evaluation, repair or replacement of the defective part or component at a KFI Service Center. KFI will provide you with a case number for warranty service. Please keep it for future reference. Repairs or replacements without prior authorization, or at an unauthorized repair facility, will not be covered by this warranty.

Warranty Exclusions

This warranty does not cover the following repairs and equipment:

Normal Wear

Hydraulic Actuators may need periodic parts and service to perform well. This warranty does not cover repair when normal use has exhausted the life of a part or the equipment as a whole.

Installation, Use and Maintenance

This warranty will not apply to parts and/or labor if this Actuator is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond the actuators limits, modified, installed improperly or wired incorrectly to any electrical component. Normal maintenance is not covered by this warranty.

Other Exclusions

- The Rod End or Heim Joint Damage.
- Cosmetic defects such as paint, decals, etc.
- Accessory parts such as storage covers.
- Misuse, abuse, neglect, acts of God, terrorism and causes beyond the control of KFI.
- Problems caused by parts that are not original Kappers Fabricating Inc. parts.
- Physical Damage Due to Hard Impacts
- Water Submersion or Damage Caused by Water.

Warranty Procedure

1. Contact KFI Technical support to acquire a Return Authorization (RA) number.
2. KFI may request additional materials (such as original sales receipt, date of purchase, technical details, or photos of Product condition) prior to issuing an RA number.
3. At the discretion of KFI, Buyer shall mail, ship, or otherwise deliver to KFI the Warrantied Product, at the address noted below.

Limits of Implied Warranty and Consequential Damage

Kappers Fabricating Inc. disclaims any obligation to cover any loss of time, use of this product, freight, or any incidental or consequential claim by anyone from using this Actuator. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE

A unit provided as an exchange will be subject to the warranty of the original unit. The length of the warranty governing the exchanged unit will remain calculated by reference to the purchase date of the original unit.

This warranty gives you certain legal rights which may change from state to state. Your state may also have other rights you may be entitled to that are not listed within this warranty.

Product Registration

Please register your product with Kappers Fabricating, Inc. (KFI) within fifteen (15) days of purchase to assist us in handling any warranty issues that may arise by filling out this Registration card and submitting it with a copy of your sales receipt from one of KFI's official resellers. Failure to complete and return this Registration card does not diminish your warranty rights.

Please refer to the above section for complete terms of this warranty.

Fill out and send this section to:

KFI Products

Warranty Registration Department

721 Sata Drive, PO Box 32

Spring Valley, MN 55975, U.S.A.

WARRANTY IS NON-TRANSFERABLE

Please Print Clearly

Model # **ACT203** SERIAL # _____

Name _____

Street Address _____

City _____ State _____ Zip Code _____

Phone _____ Fax _____ Email _____

Date of Purchase _____ Authorized KFI Dealer Name _____

CONTACT INFORMATION

Address

KFI Products
Winch Customer Service
P.O. BOX 32
721 SATA DRIVE
SPRING VALLEY, MN 55975

Corporate

KAPPERS FABRICATING, INC.
P.O. BOX 32
1015 INDUSTRIAL DR.
SPRING VALLEY, MN 55975

Customer Service

Mon - Thr 8:00 AM - 5:00 PM (CST/CDT)
Fri - 7:00 AM - 1:00 PM (CST/CDT)
Toll Free: 1-877-346-2050 Opt 1
Fax No: 1-507-346-2010
E-mail: sales@kfiproducs.com

Technical Service

Mon - Thr 8:00 AM - 5:00 PM (CST/CDT)
Thr - 7:00 AM - 1:00 PM (CST/CDT)
Toll Free: 1-877-346-2050 Opt 2
E-mail: tech@kfiproducs.com

Website

<https://www.kfiproducs.com>

SAFETY DEFINITIONS

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and their explanations, deserve your careful attentions and understanding. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention measures.

 DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

 WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

 CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

 NOTICE

NOTICE indicates information considered important, but not hazard-related (e.g., messages relating to property damage or physical injury).



1-877-346-2050

KFI PRODUCTS

P.O. BOX 32
721 SATA DRIVE
SPRING VALLEY, MN 55975

WWW.KFIPRODUCTS.COM

CORPORATE OFFICE:

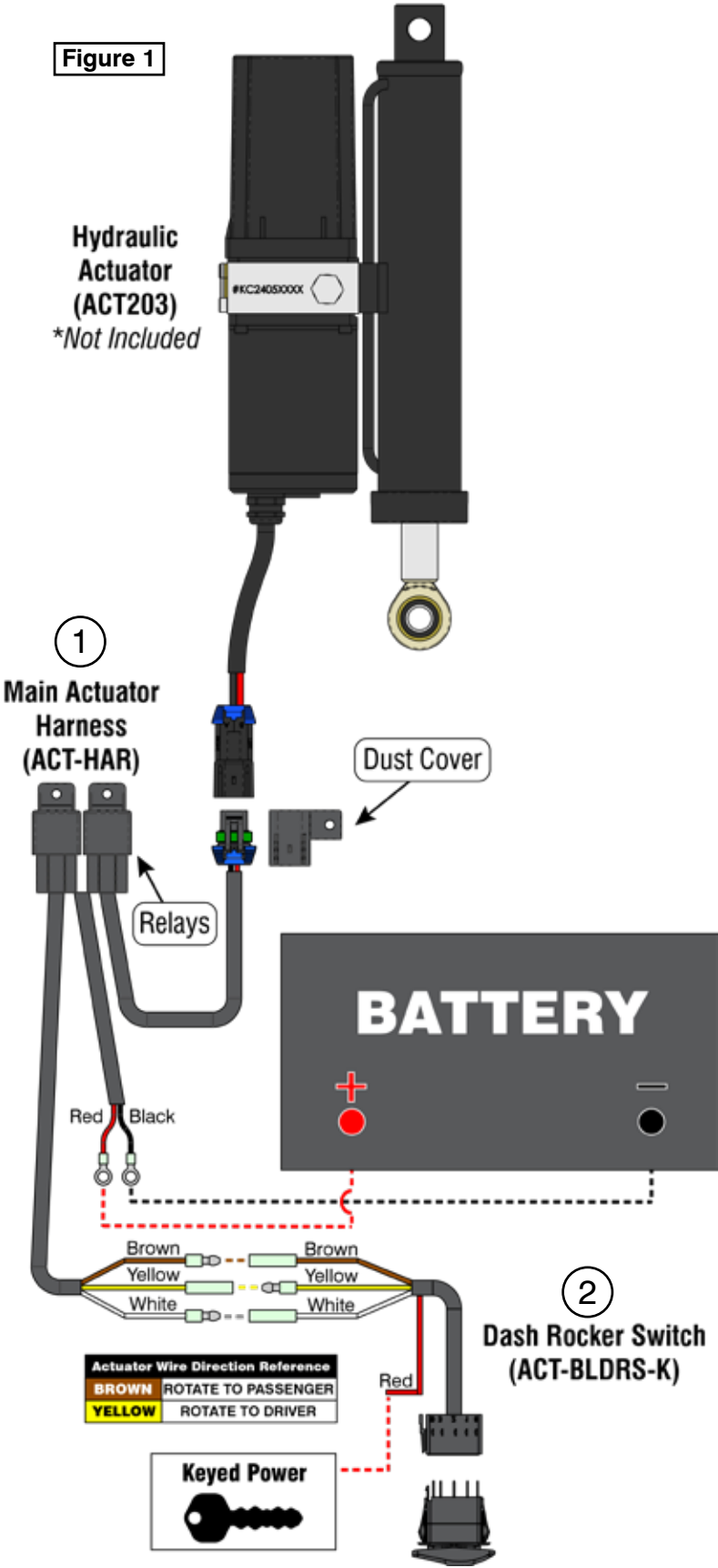
KAPPERS FABRICATING, INC.
P.O. BOX 32
1015 INDUSTRIAL DR.
SPRING VALLEY, MN 55975
USA

MADE IN CHINA
©2024 KAPPERS FABRICATING, INC.

WIRE HARNESS - HYDRAULIC ACTUATOR

Wire Harness PART #106940 Rev A.1

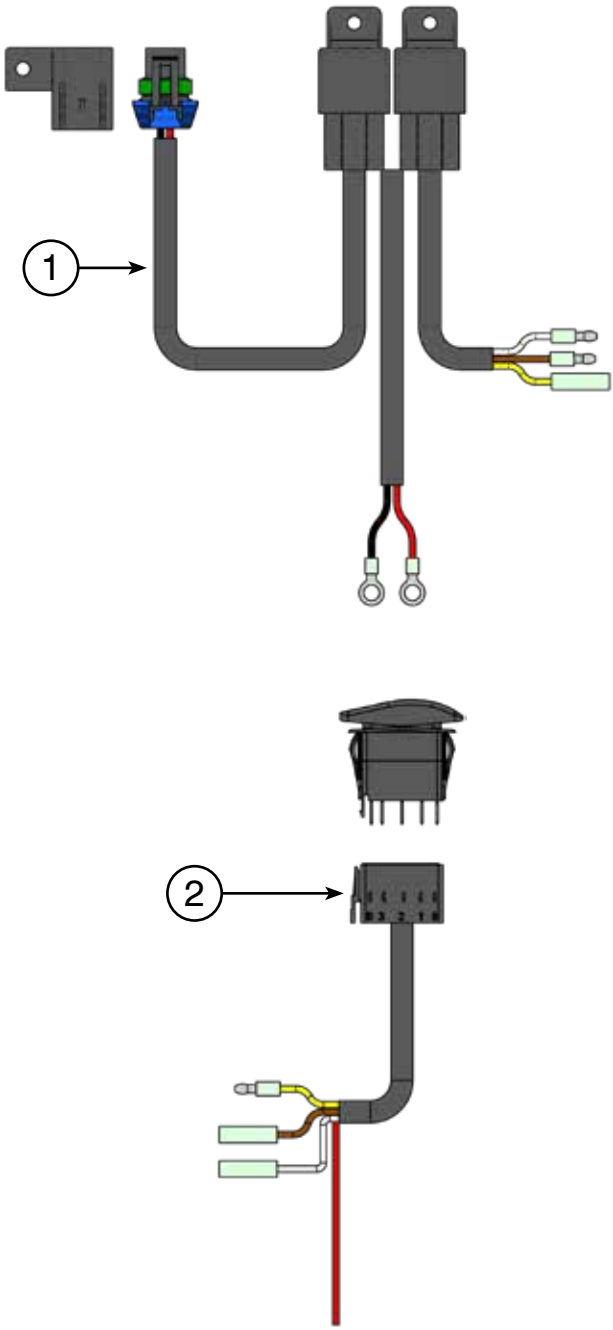
Figure 1



Kit Components:

Item #	Qty.	Description
1	1	ACT-HAR (Actuator Main Relay Harness)
2	1	(ACT-BLDRS-K) Dash Rocker Switch

Note: Make sure components needed to complete this installation are in the package. Thoroughly read through and understand the instructions before installing.



INSTALLATION INSTRUCTIONS



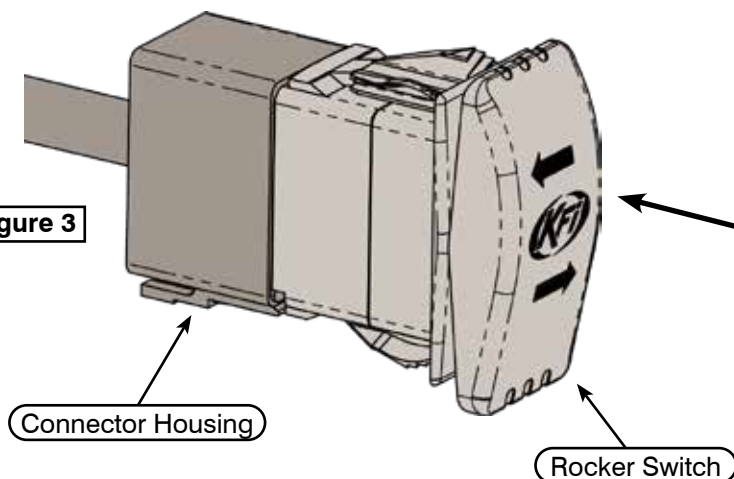
CAUTION

Never route electrical cables across any sharp edges, through or near moving parts, or near parts that become hot.

Installation Instructions

1. Connect the Red and Black wires from the **Main Actuator Harnesses (1)** to the battery. See **Figure 1** for reference.
 - Red wires to the Positive (+) terminal
 - Black wires to the Negative (-) terminal
2. Splice the end of the red wire from the **Dash Rocker Switch (2)** into a power source that is controlled by the ignition. Use a test light to identify a wire that receives power only when the key is in the ON position.
3. Connect the Brown, Yellow, and White wires from the **Dash Rocker Switch (2)** to the **Main Actuator Harness (1)**:
 - Brown (Female) to Brown (Male)
 - Yellow (Male) to Yellow (Female)
 - White (Female) to White (Male)
4. Find a clean and dry location to mount the **Relays**. Make sure the location you choose allows sufficient clearance from all metal components. Drill a mounting hole if required. Secure with zip ties or self tapping screws.
5. Secure the **Dust Cover** of the **Main Actuator Harness (1)** to the front of the machine with zip ties. Position it so the plug connecting to the **ACT203** is easily accessible when the plow is not in use.
6. For additional control options for the Hydraulic Actuator, consider the hand remote (**ACT-HR**), which enables control of both the actuator and the winch with a single remote.

Figure 3



Mounting the Dash Rocker Switch

1. Most UTV's and SxS's have predefined switch locations that are pre-marked for mounting and require finish cut with a knife.
2. Use cut-out dimensions shown below to cut out the switch location if your dash doesn't have the pre marked areas. Measure 1" mark above the template to be sure print is scaled correctly. See **Figure 2**.
3. Before installing the switch in place, ensure it is connected to the rest of the harness by plugging the **Rocker Switch** into the **Connector Housing**. Be sure it is orientated correctly. See **Figure 3**.

AFTER PRINTING, LINE
BELOW SHOULD
MEASURE 1"

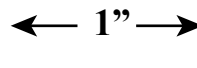
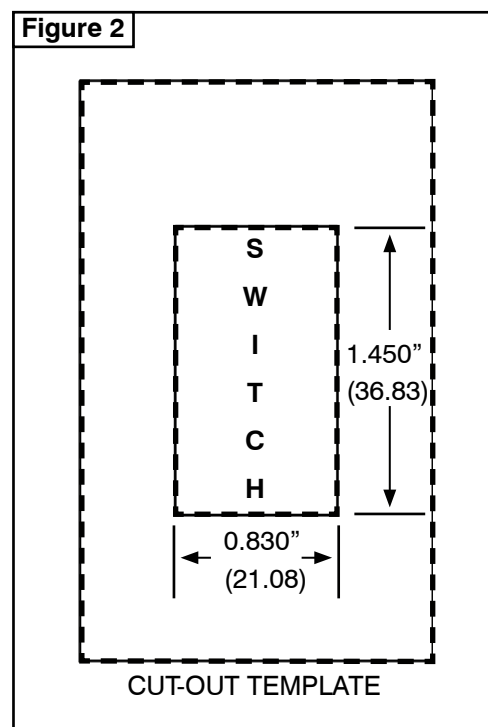


Figure 2



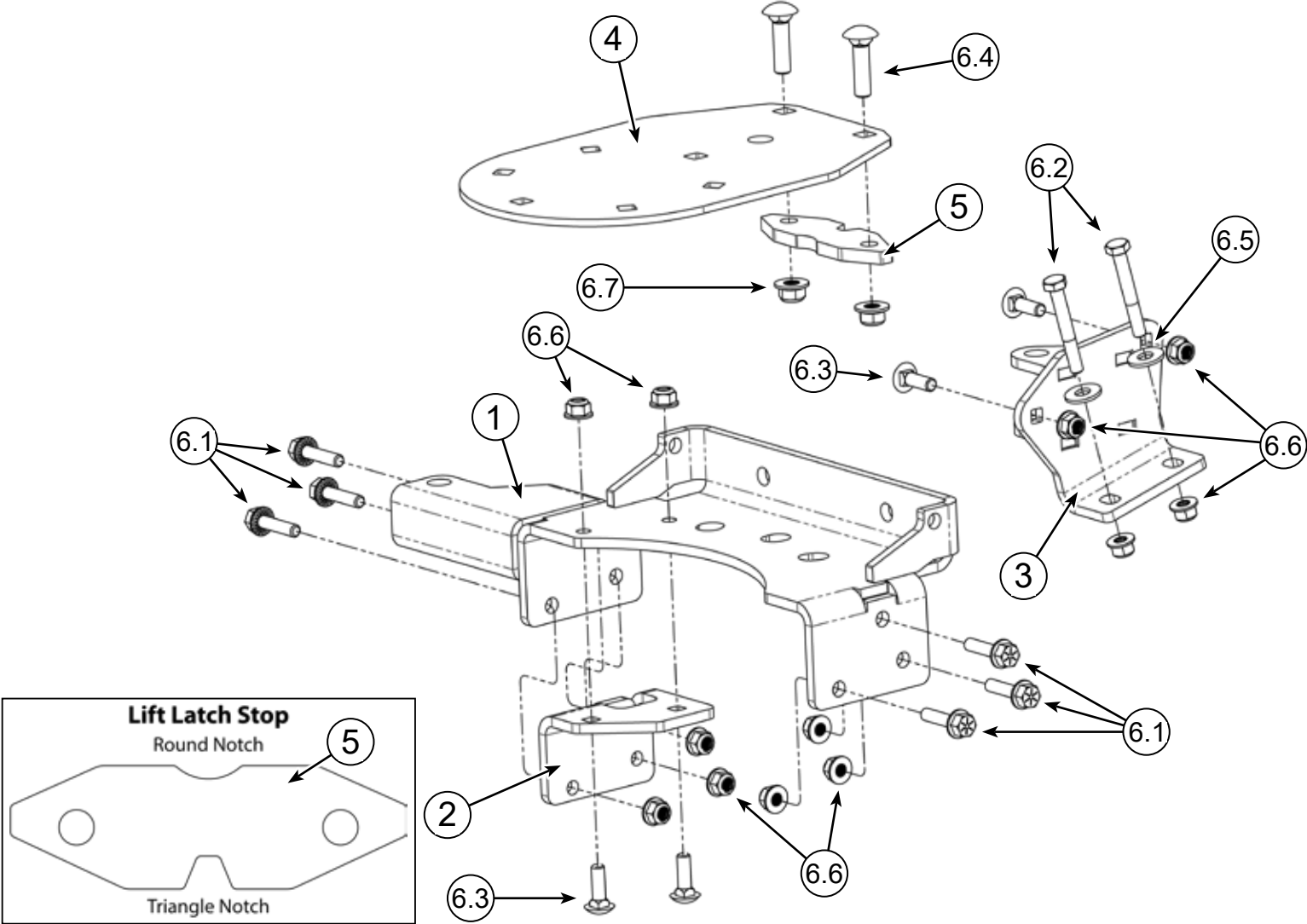
Insert the **Rocker Switch** into the **Connector Housing** before mounting it in the dash or a suitable location. Ensure the thicker end of the switch is positioned at the top, with the KFI logo oriented correctly.



HYDRAULIC PLOW ACTUATOR BRACKETS

Plow Accessory

PART #106305 Rev. C



Item #	Qty.	Description
1	1	Cradle Bracket
2	1	Backer Plate
3	1	Rear Tube Bracket
4	1	Flat Cradle Keeper
5	1	Lift Latch Stop
6	1	Hardware Kit (HK-404)

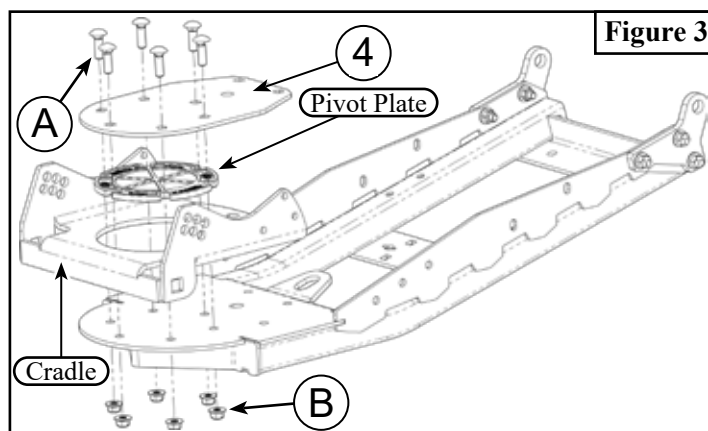
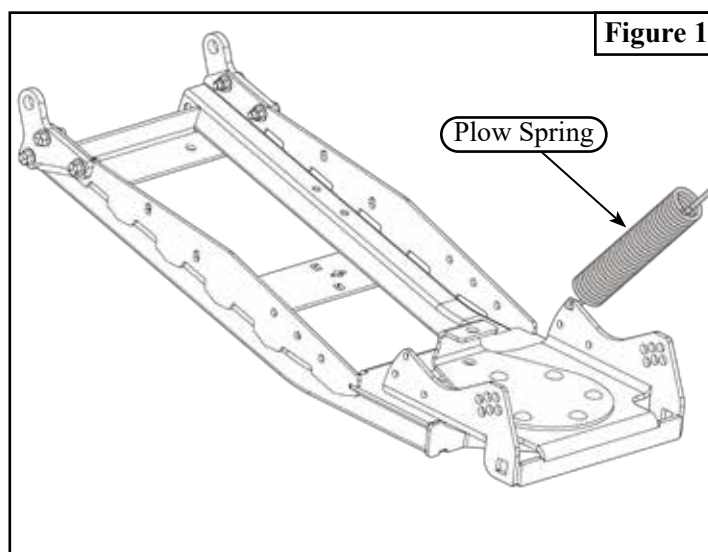
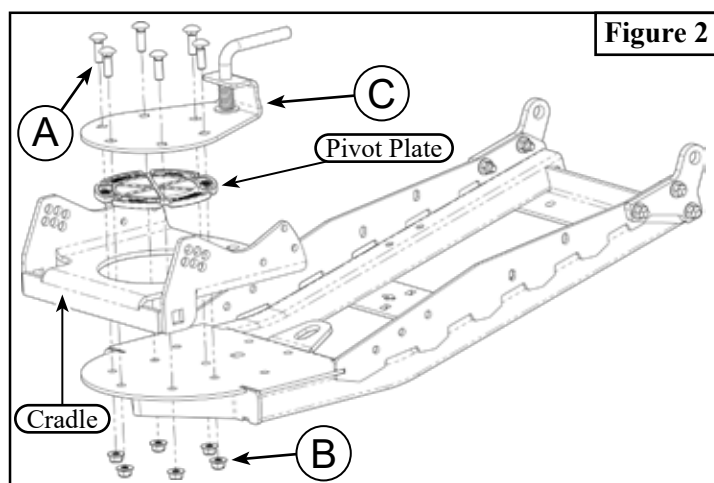
Item #	Qty.	Description
6.1	6	5/16"-18 X 1.25 Hex Flange Bolt GR8
6.2	2	5/16"-18 X 2.25 Hex Bolts GR5
6.3	4	5/16"-18 X 1.00 Carriage Bolts GR5
6.4	2	3/8"-16 X 1.5" Carriage Bolt GR5
6.5	2	5/16" Flat Washer
6.6	12	5/16"-18 Hex Flange Lock Nut
6.7	2	3/8"-16 Hex Nut Flange Nylock GR5



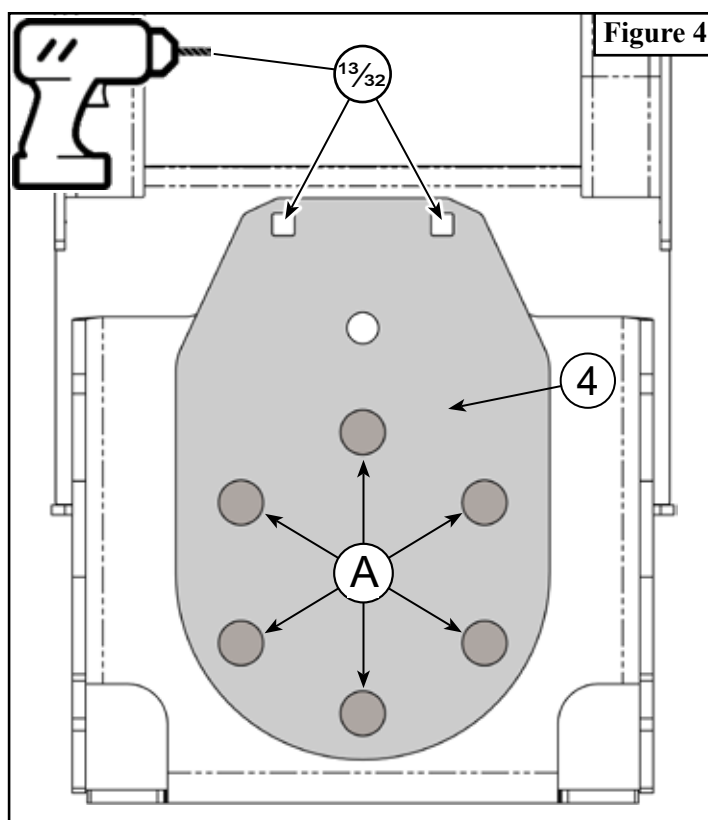
BRACKET INSTALLATION INSTRUCTIONS

Note: Make sure all hardware needed to complete this mount is in the package. Thoroughly read through and understand the instructions before installing.

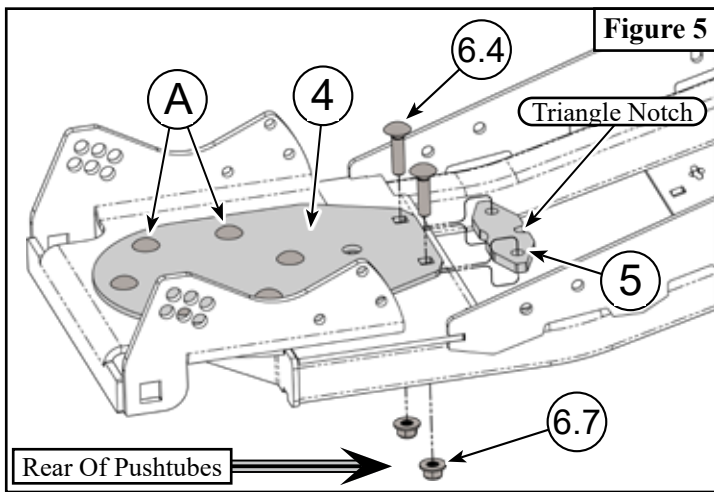
1. Remove both Plow Springs if installed. Set aside as they will be reinstalled later.
2. Remove the original Lift Lock Latch (C) by removing the 6 Bolts (A) and 6 Nuts (B) as shown in **Figure 2**.



3. Install the Flat Cradle Keeper (4) using the same 6 Bolts (A) and 6 Nuts (B) as shown in **Figure 3**. If drilling is required as shown in **Figure 4**, tighten the 6 bolts (A) evenly. If these rear holes exist through all components, leave Cradle Keeper (4) loose and skip to step 5. *Do not overtighten Bolts (A) or it may become difficult to rotate the blade.*
4. If drilling is required for the rear-most bolts in the Cradle Keeper (4), use the Cradle Keeper as a template to drill through the push tube bulkhead with a 13/32" drill bit as shown in **Figure 4**.



BRACKET INSTALLATION INSTRUCTIONS



5. Once your rear holes are drilled, loosen the 6 bolts (A) to install the Lift Latch Stop (5) between the Flat Cradle Keeper (4) and push tube bulkhead. **The triangle notch in the Lift Latch Stop (5) should be oriented towards the rear of the pushtubes (front of the machine).** Secure components with Bolts (6.4) and Nuts (6.7). See **Figure 5**.

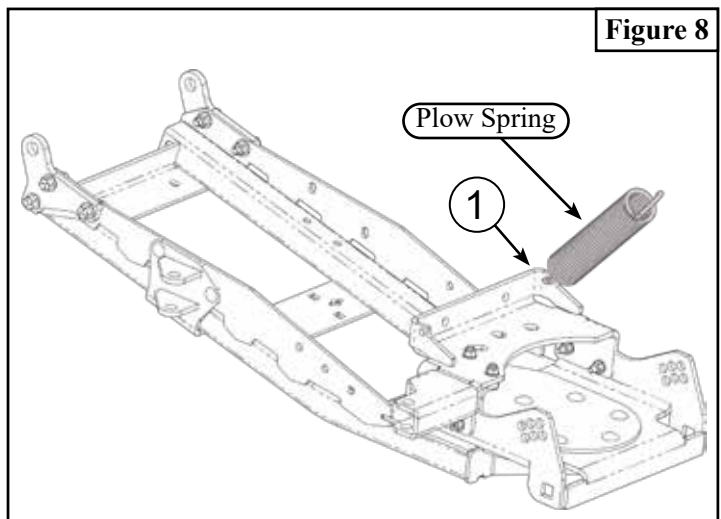
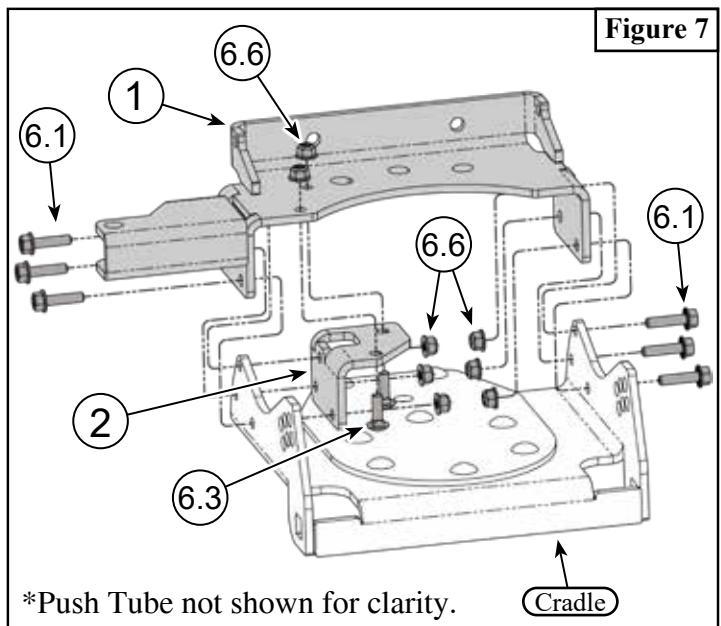
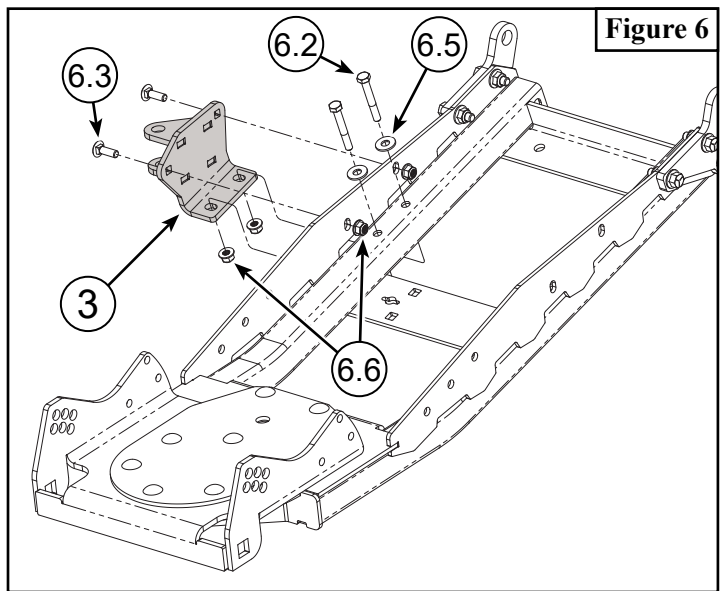
6. Attach Rear Tube Bracket (3) to the push tube using Bolts (6.2 & 6.3) and Nuts (6.6). Place bolts (6.2) through washers (6.5) before placing through the push tubes. As shown in **Figure 6**.

7. Loosely assemble Backer Plate (2) to the Cradle Bracket (1), using Carriage Bolts (6.3) and Lock Nuts (6.6), as shown in **Figure 7**.

8. Place Cradle Bracket (1) over the Cradle and attach with Bolts (6.1) and Lock Nuts (6.6), as shown in **Figure 7**.

9. Tighten all hardware evenly.

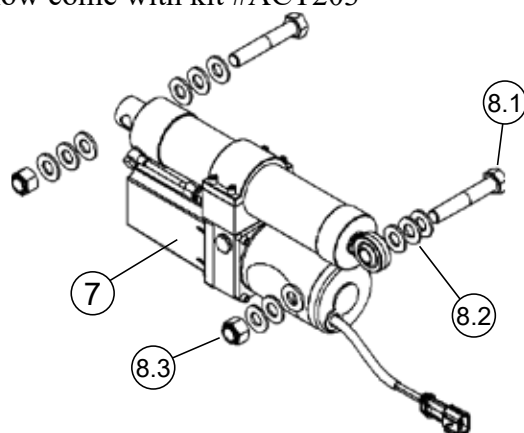
10. Springs will attach to the bent flange on the Cradle Bracket (1). As shown in **Figure 8**.



ACTUATOR INSTALLATION INSTRUCTIONS

Note: Actuator is not included with this kit. Items below come with kit #ACT203

Item #	Qty.	Description
7	1	Actuator
8	1	Hardware Kit HK-381
8.1	2	M14-2.00 X 80 Hex Bolts GR8.8
8.2	12	M14 Flat Washer
8.3	2	M14 X 2.00 Hex Lock Nut



INSTALLATION INSTRUCTIONS

1. Place bolt (8.1) through flat washer (8.2), top tab of rear actuator bracket, flat washer (8.2), Hydraulic Actuator (7), flat washer (8.2), bottom tab of rear actuator bracket, and flat washer (8.2). Place nylock nut (8.3) onto bolt (8.1) as shown in Figure 9. (This orientation of hardware is just a guideline)

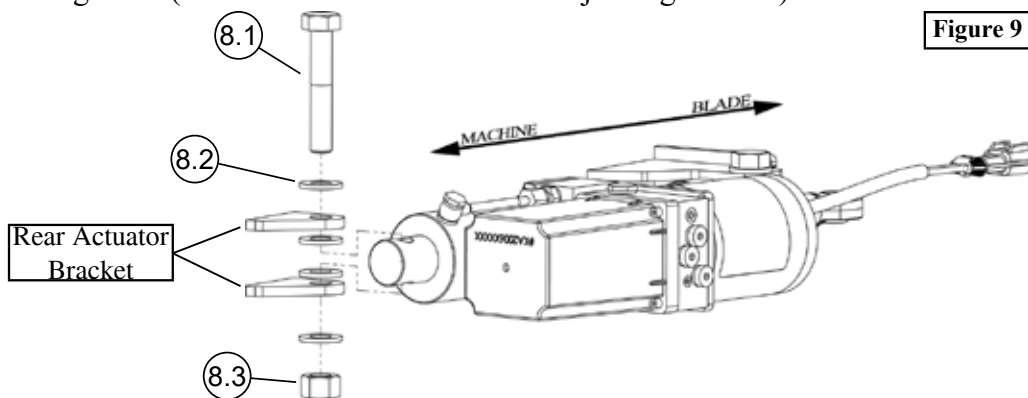


Figure 9

2. Repeat previous step for mounting the front half of the actuator, as shown in Figure 10. It is most important that you use the washers to make sure that the actuator is parallel to the cradle swivel point, as shown in Figure 11. Both front, and rear bolts should not be tight, thread the nut on until Nylock is engaged.

Note: Periodically apply lubricant to actuator attachment points.

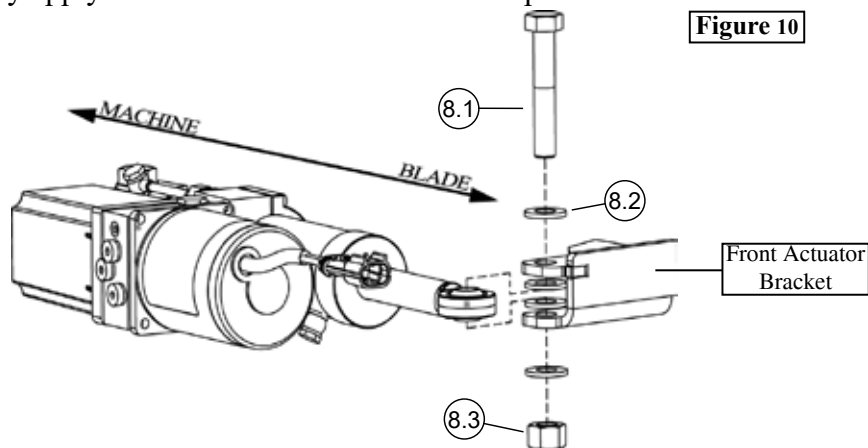


Figure 10

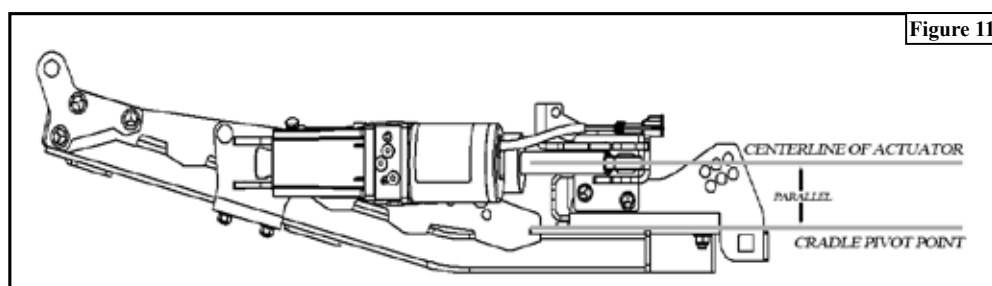
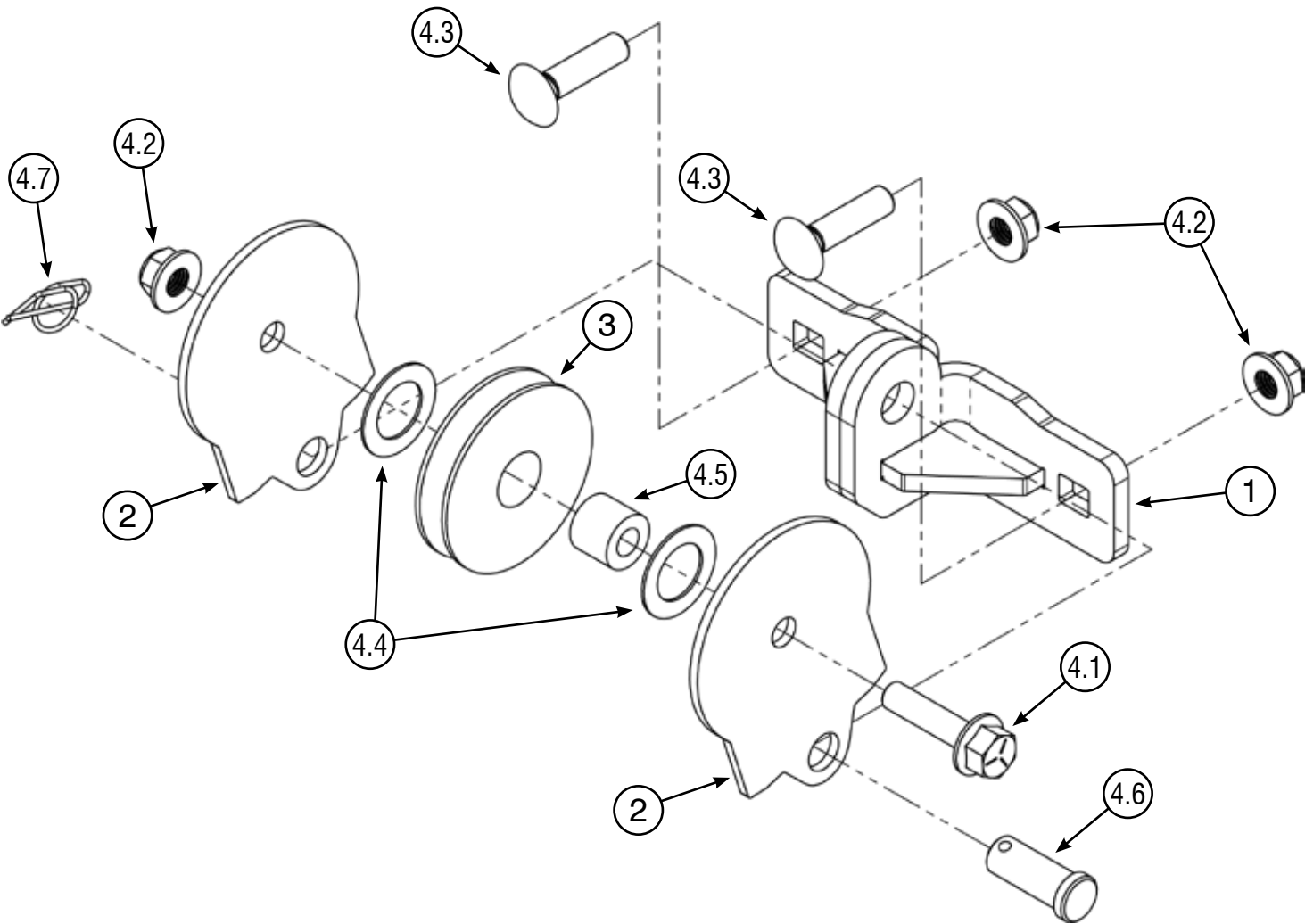


Figure 11

QUICK PLOW PULLEY - STEEL CABLE

Plow Pulley

PART #106680 Rev A



Kit Components:

Item #	Qty.	Description	Item #	Qty.	Description
1	1	Pulley Mount (106682)	4.3	2	3/8"-16 X 1.50 Carriage Bolt
2	2	Side Plate (106681)	4.4	2	1.25 X .78 X .04 Spacer (P800311)
3	1	Steel Plow Roller Pulley (P800280)	4.5	1	Plow Pulley Bushing (P800327)
4	1	Hardware Kit (HK-456)	4.6	1	Clevis Pin 1/2 x 1" Zinc (P800637)
4.1	1	3/8"-16 X 1.50 Hex Flange Bolt	4.7	1	Cotter Pin 1/2" (P800609)
4.2	3	3/8"-16 Hex Flange Nut Nylock			



INSTALLATION INSTRUCTIONS

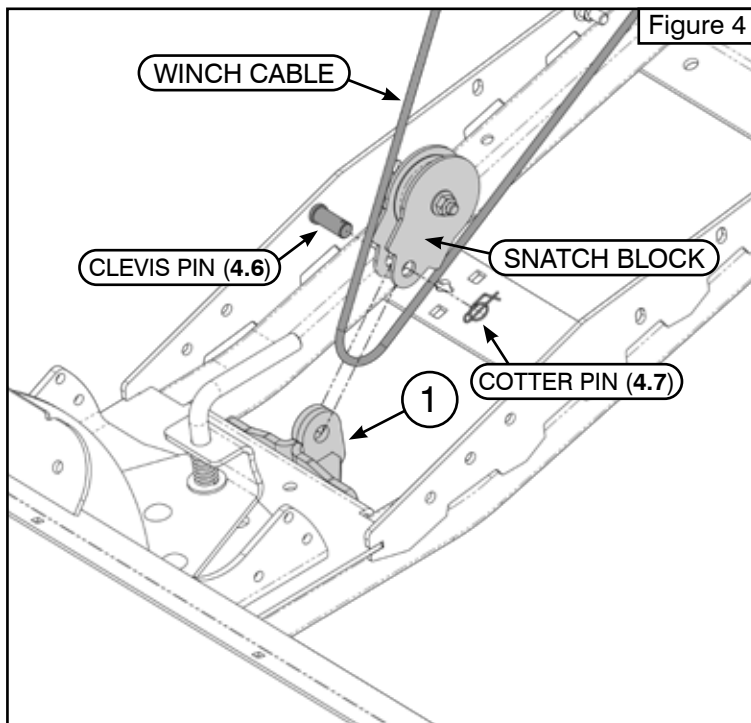
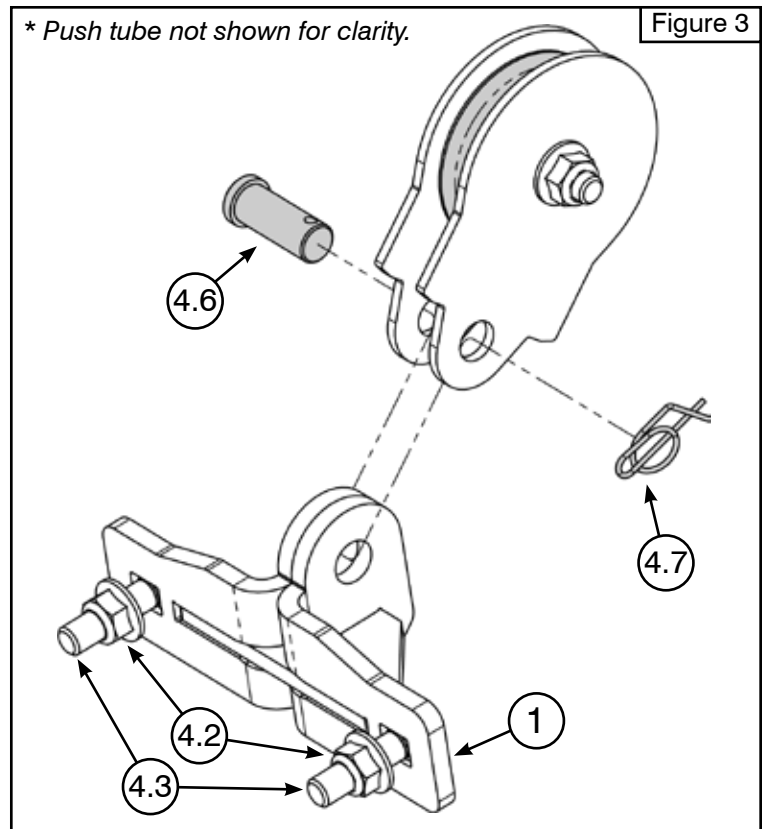
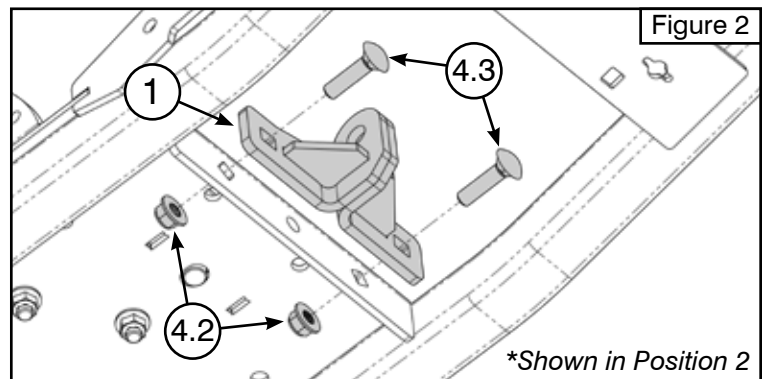
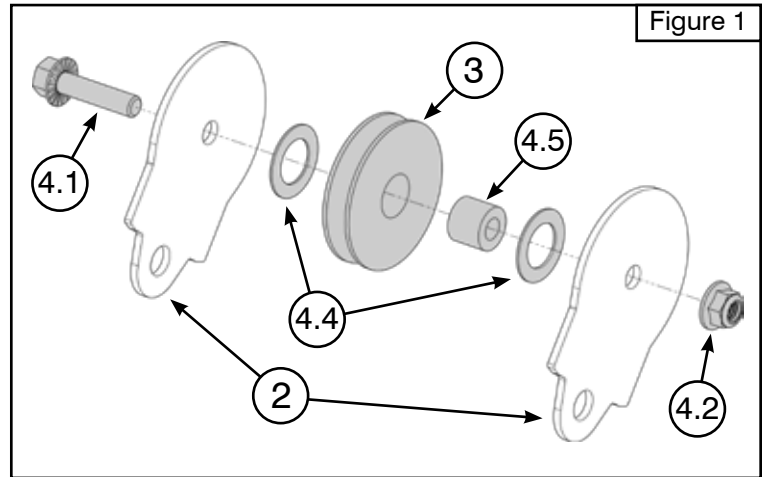
Notice

Torque bolts to ANSI Specs (or OEM specs if applicable), unless otherwise stated. After the first use and at the start of each season, check torque.

Note: Make sure all hardware needed to complete this mount is in the package. Thoroughly read through and understand the instructions before installing.

Installation Instructions

1. Begin assembling the Snatch Block as shown in **Figure 1**. Insert the Flange Bolt (4.1) through Side Plate (2), then Spacer (4.4), then the Plow Pulley Bushing (4.5) inside the Steel Plow Roller Pulley (3), then the second Spacer (4.4), and finally the opposite Side Plate (2). Secure the assembly with the Nut (4.2). **Do not overtighten; the pulley should spin freely with the cable.**
2. Install the Pulley Mount (1) using the Carriage Bolts (4.3) and Nuts (4.2) in one of the three available **Push Tube Positions**, as shown on the **Page 3**. Refer to **Figure 2** for an example of the installation in **Position 2**.
3. Next, insert the Clevis Pin (4.6) through Side Plate (2) of the Snatch Block, then through the Pulley Mount (1), and out through the opposite Side Plate (2), as shown in **Figure 3**. Secure the Clevis pin (4.6) with the Cotter Pin (4.7).
4. To install the cable, remove the Cotter Pin (4.6) and Clevis Pin (4.7). Place the Snatch Block around the cable as shown in **Figure 4**, then reinstall the Clevis and Cotter pins.





THIS MOUNT RECOMMENDS A PLOW PULLEY



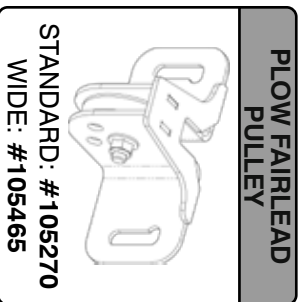
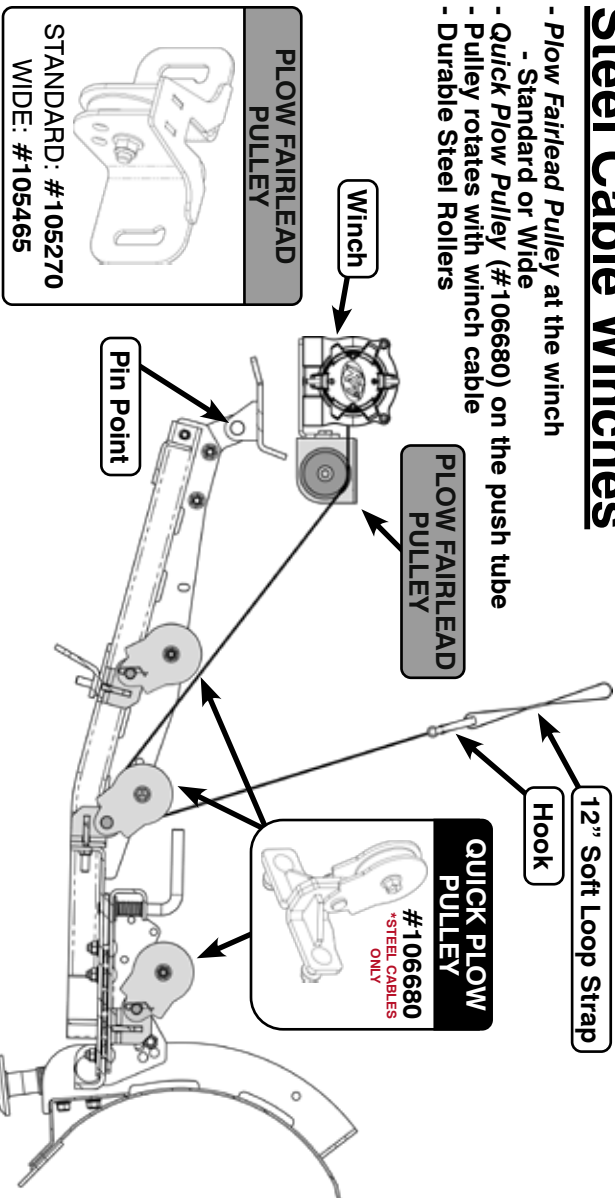
WHY USE A PULLEY WHEN PLOWING?

When the fairlead and plow pin point are too close, the winch line pulls at a shallow angle. This puts extra strain on the winch and makes lifting less effective. Adding a pulley gives the line a smoother, more vertical pull, improving lift and reducing stress on the winch and plow system. **For more information, visit KFIproducts.com.**



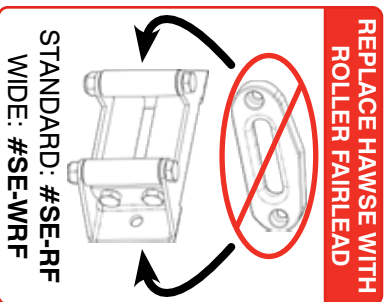
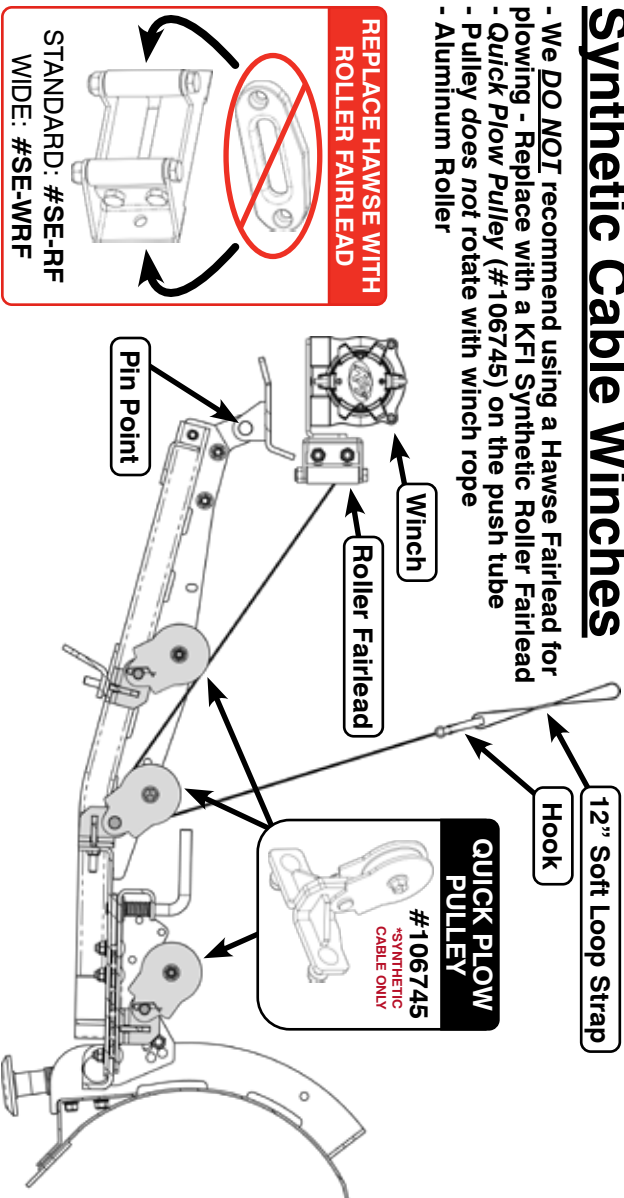
Steel Cable Winches

- Plow Fairlead Pulley at the winch
 - Standard or Wide
- Quick Plow Pulley (#106680) on the push tube
- Pulley rotates with winch cable
- Durable Steel Rollers

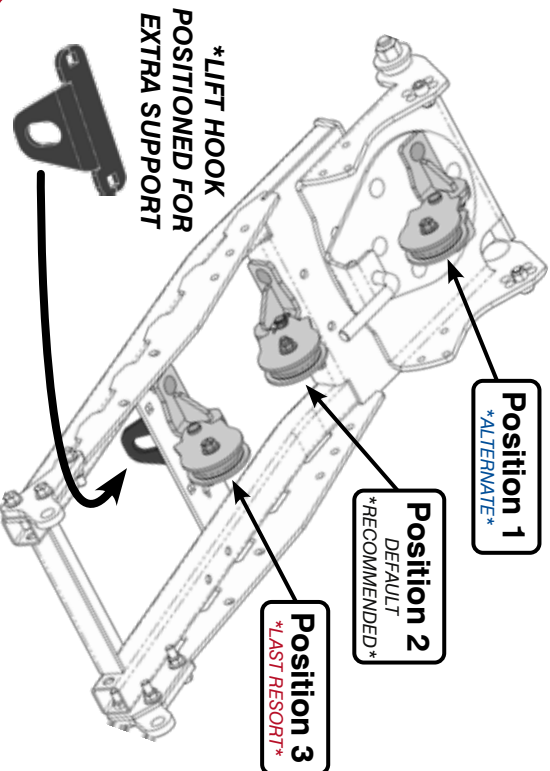


Synthetic Cable Winches

- We **DO NOT** recommend using a Hawse Fairlead for plowing - Replace with a KFI Synthetic Roller Fairlead
- Quick Plow Pulley (#106745) on the push tube
- Pulley does not rotate with winch rope
- Aluminum Roller



PUSH TUBE POSITIONS



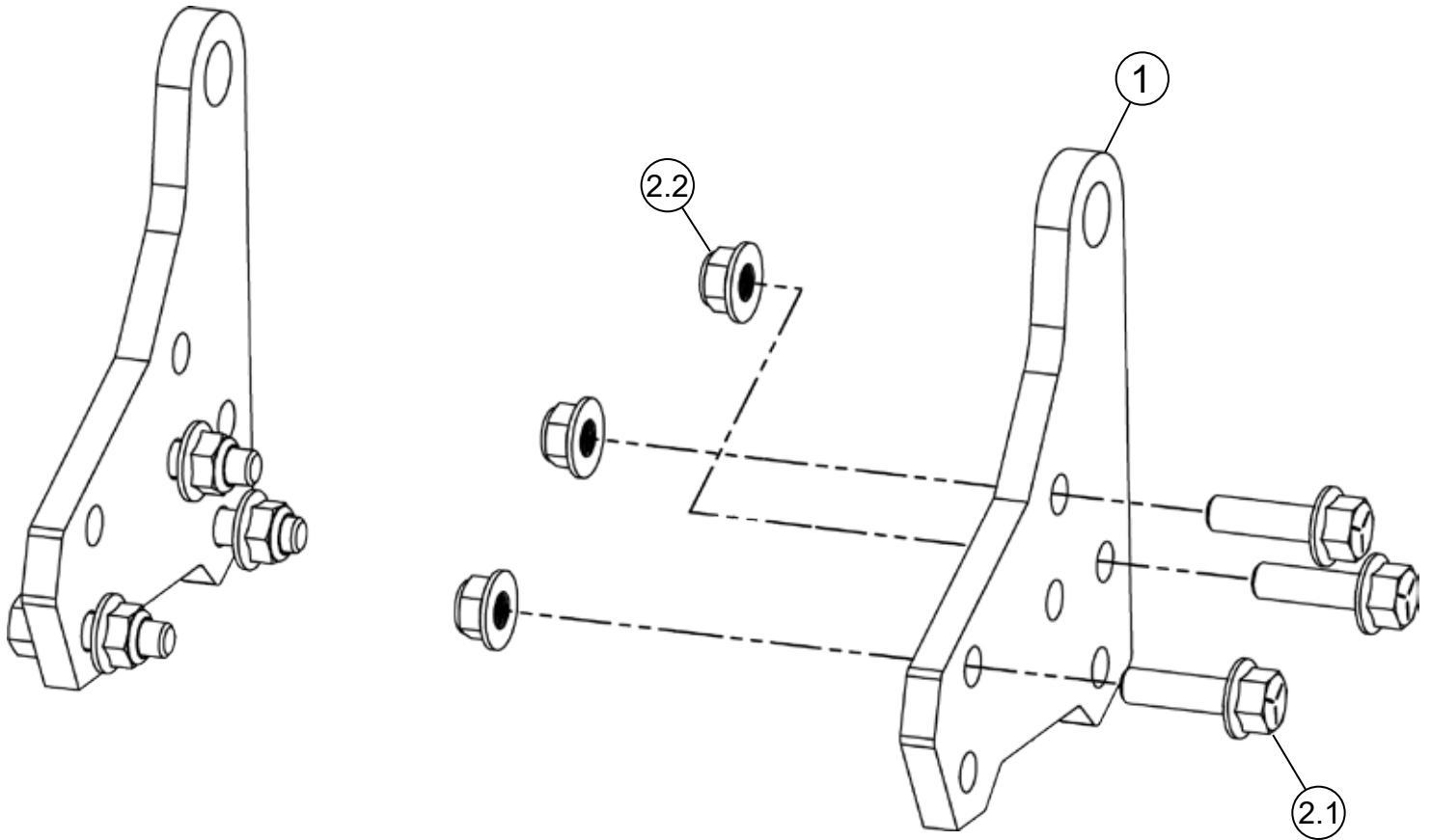
- The 12" Soft Loop Strap can be used in two configurations:
1. Wrapped once around a solid anchor point as shown above. Follow **Steps 1-4**.
 2. Wrapped around the bumper in a "U" shape, allowing the hook to pass through both strap loops. See **Step 1 Only**.

1"- 2" SQ PUSH TUBE LEVELING KIT

Plow Accessory

PART #106322

Kit Components:		
Item #	Qty.	Description
1	2	Leveling Tab
2	1	Hardware Kit (HK-398)
2.1	6	3/8"-16 x 1.25 Hex Flange Bolt
2.2	6	3/8"-16 Hex Flange Nylock Nut



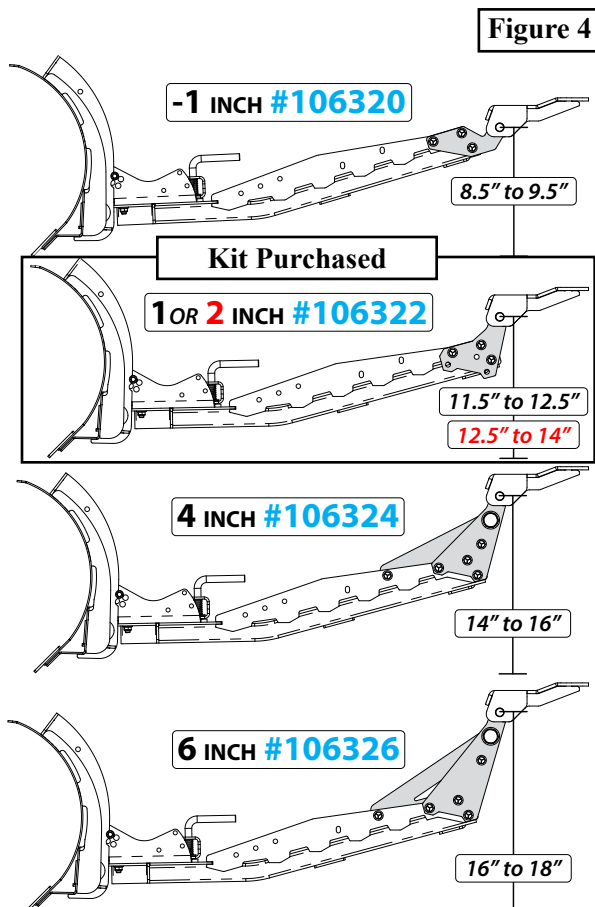
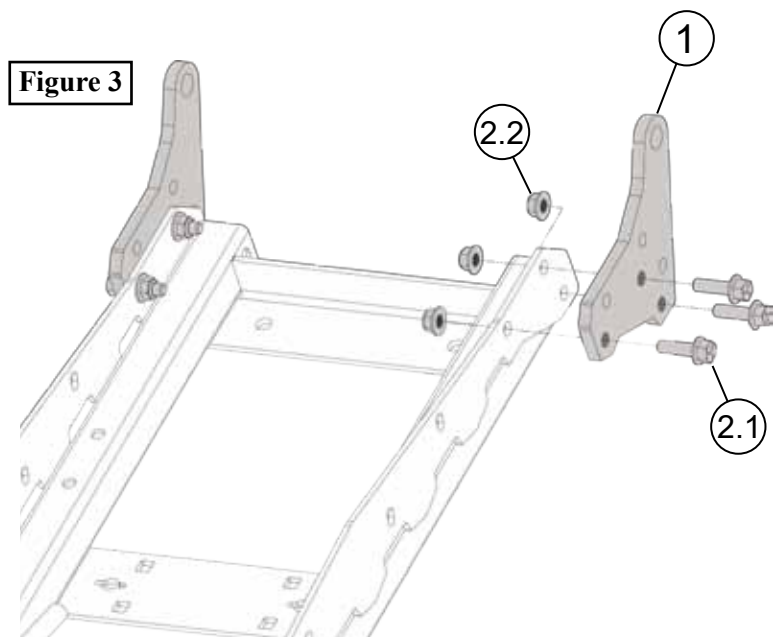
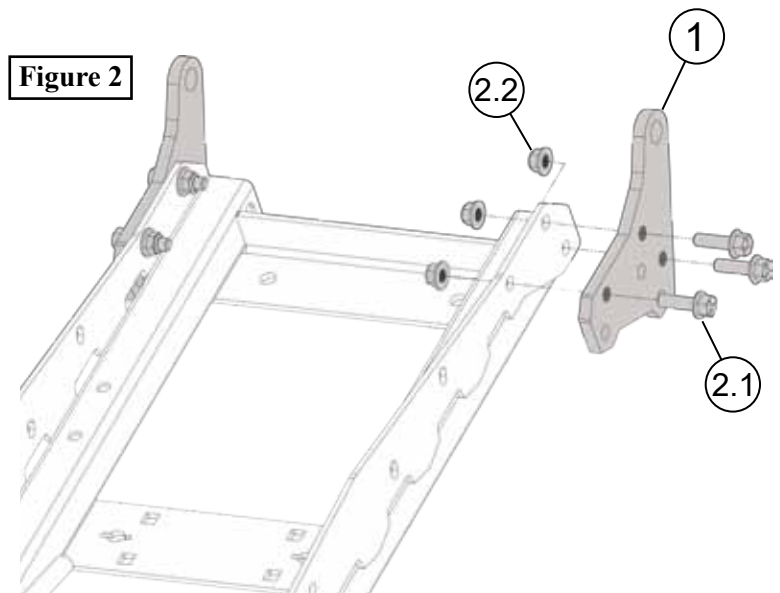
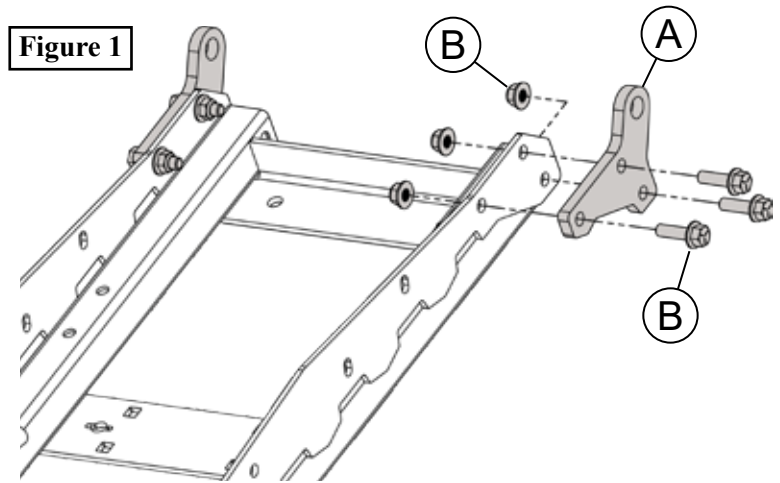
INSTALLATION INSTRUCTIONS

Note: Make sure all hardware needed to complete this mount is in the package. Thoroughly read through and understand the instructions before installing.

Note: If standard pin attachment brackets have not yet been installed, skip to step 2.

Note: The ideal pin height is 10.875". Use leveling kit configuration accordingly. (see figure 4) Be sure suspension is settled before measuring on flat level ground.

1. Remove and discard the existing standard pin attachment brackets (A) and hardware (B) as shown in **Figure 1**.
2. Set leveling tab (1) in place and secure using bolts (2.1) and nuts (2.2) as shown in **Figures 2 & 3**.
3. For the 1" leveling height configuration, see **Figure 2**. For the 2" leveling height configuration, see **Figure 3**.
4. Torque all hardware to **31 lb-ft**.



POLARIS RANGER HIGHLIFTER

Plow Mount

PART #106485 Rev B

Kit Components:

Item #	Qty.	Description
1	1	Plow Mount
2	1	Hardware Kit HK-341
2.1	3	3/8"-16 X 1.00" Hex Bolt Flange GR5 Serrated
2.2	3	3/8"-16 Hex Nut Flange Nylock GR5

Not all hardware is used

Note: Make sure all hardware needed to complete this mount is in the package. Thoroughly read through and understand the instructions before installing.

Installation Instructions

1. Remove bottom bumper Hardware (A) as shown in **Figure 2** and set aside for later.
2. Place mount over bumper as shown in **Figure 3**. Reinstall bottom Hardware (A), through the plow mount, and into the same position they were removed from.
3. Place Bolts (2.1) through the top of the mount and into the frame of the machine, securing the Bolts with Nuts (2.2) on the backside. See **Figures 1 and 3**.

Figure 3

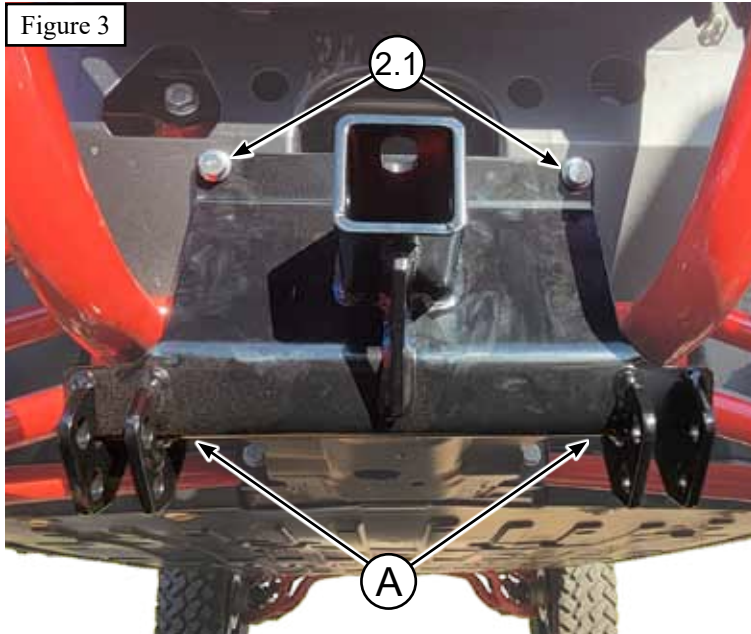


Figure 1

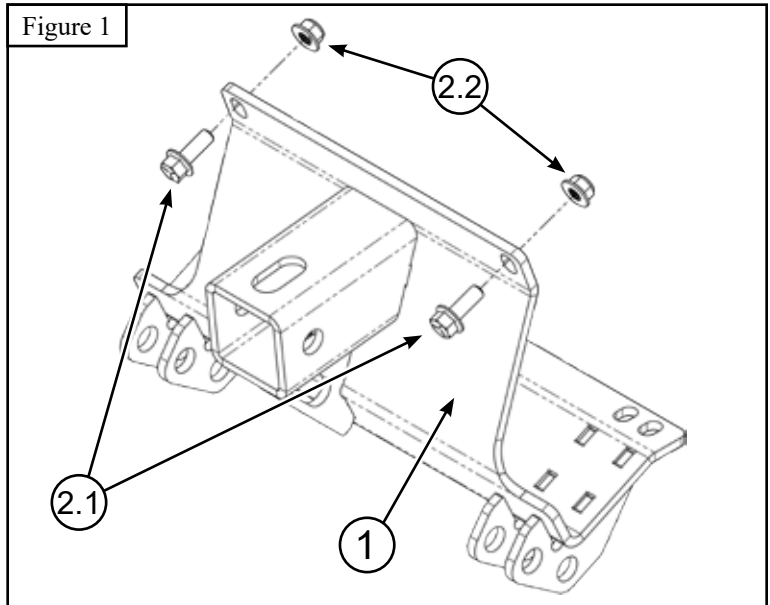
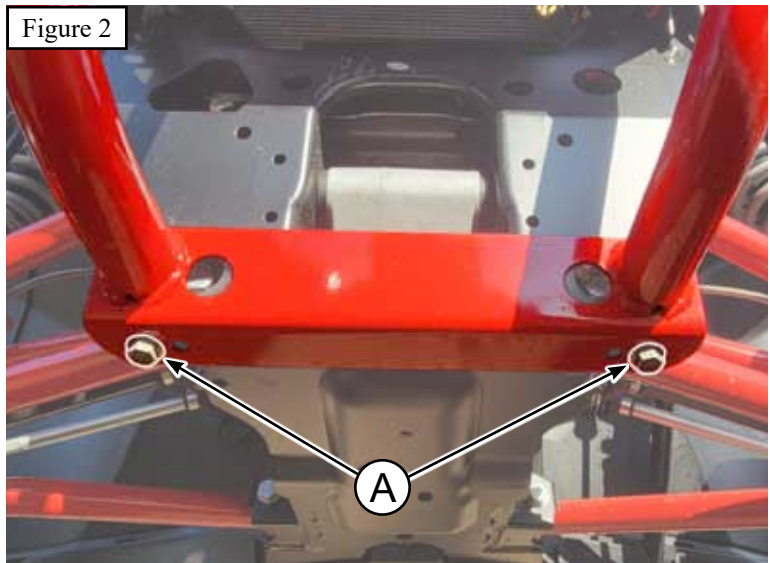


Figure 2

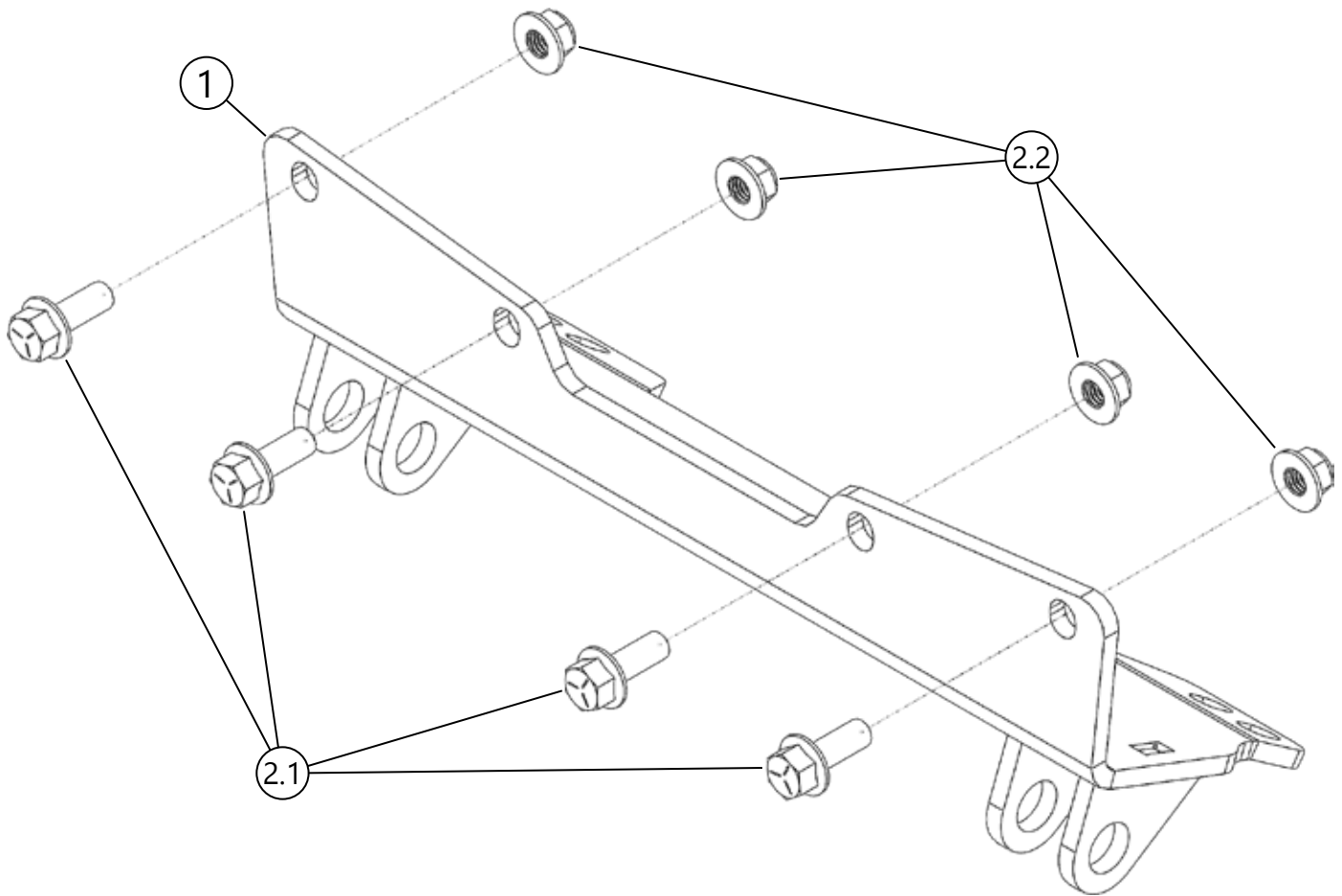


POLARIS RANGER 1000

Plow Mount

PART #106165

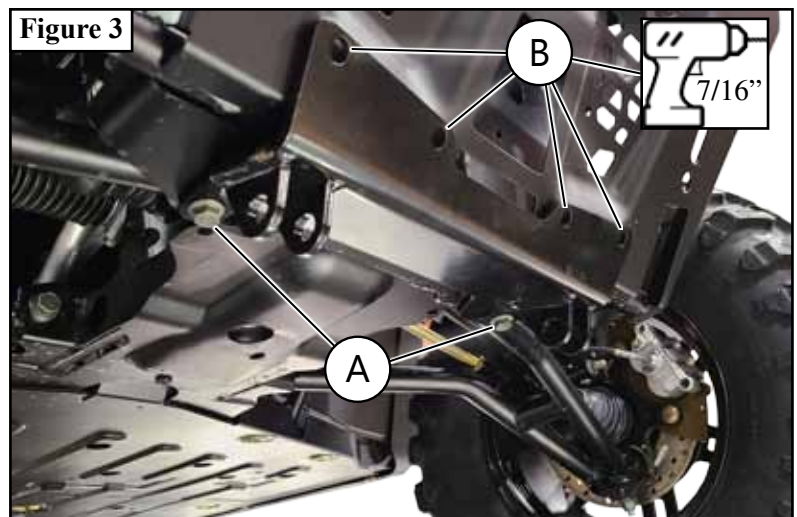
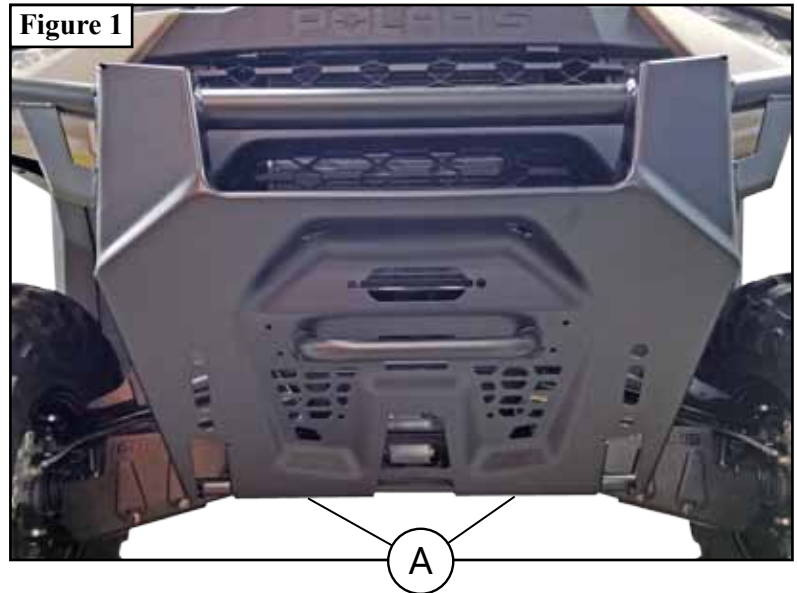
Kit Components:		
Item #	Qty.	Description
1	1	Plow Mount
2	1	Hardware Kit (HK-391)
2.1	4	3/8"-16 x 1.00 Hex Flange Bolt
2.2	4	3/8"-16 Hex Flange Nylock Nut
2.3	4	3/8"-16 Square Nut (not used)



INSTALLATION INSTRUCTIONS

Note: Make sure all hardware needed to complete this mount is in the package. Thoroughly read through and understand the instructions before installing.

1. Remove OEM hardware (A) securing bottom of the front bumper as shown in **Figure 1 & 2**. *Note: Set hardware (A) aside as it will be reused in a later step.*
2. Set plow mount (1) in place and secure using OEM hardware (A) removed in step 1 as shown in **Figure 3**.
3. Using plow mount (1) as a template, drill holes (B) using a 7/16" drill bit as shown in **Figure 3**.
4. Secure top of plow mount (1) in locations (B) using bolts (2.1) and nuts (2.2) as shown in **Figure 4**.
5. Tighten all hardware evenly.



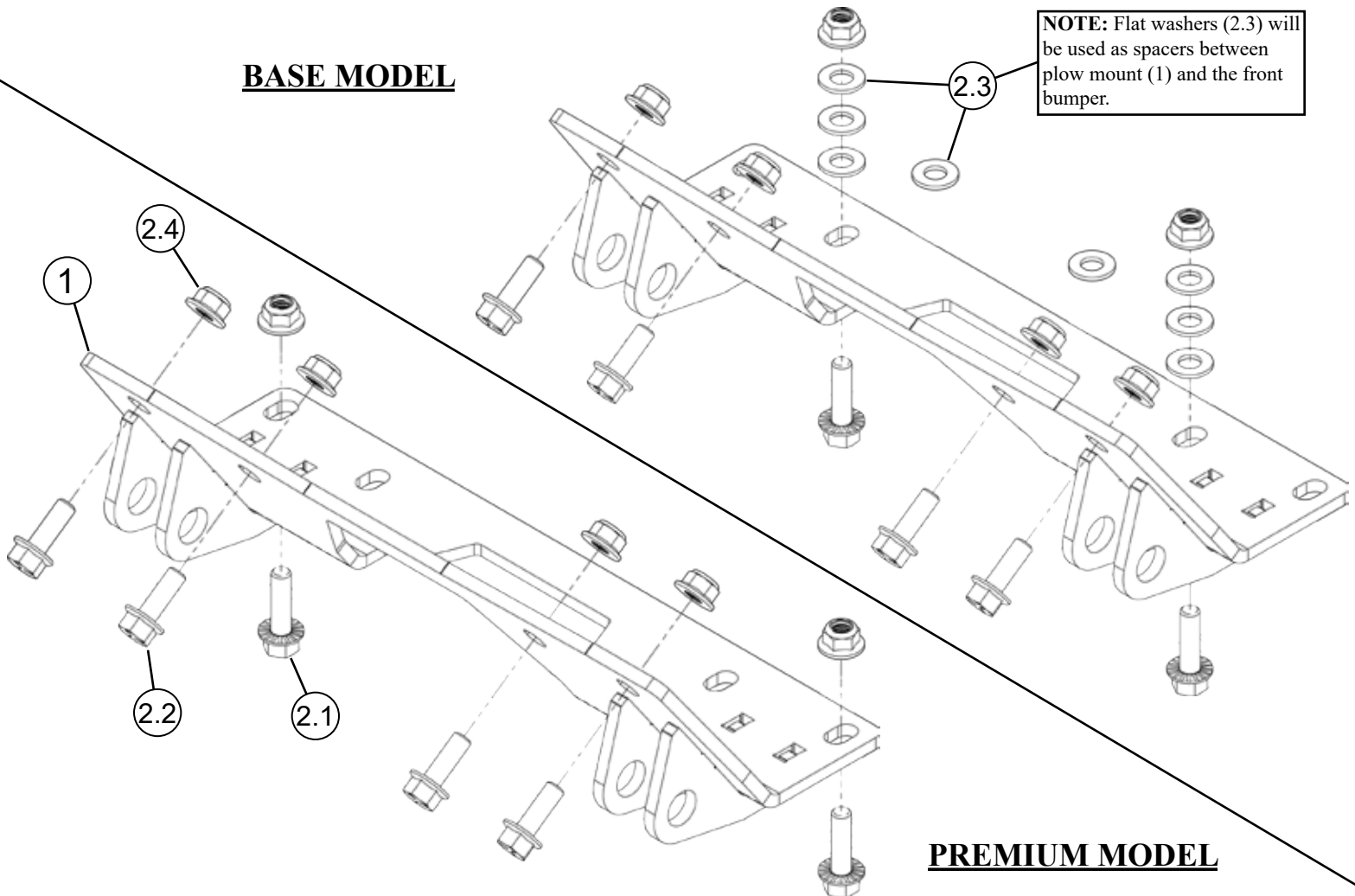
POLARIS RANGER SP 570

Plow Mount

PART #106400

Kit Components:		
Item #	Qty.	Description
1	1	Plow Mount
2	1	Hardware Kit (HK-413)
2.1	2	3/8"-16 x 1.25 Hex Flange Bolt
2.2	4	3/8"-16 x 1.00 Hex Flange Bolt
2.3	8	3/8" Flat Washer (used on base model only)
2.4	6	3/8"-16 Hex Flange Nylock Nut

BASE MODEL



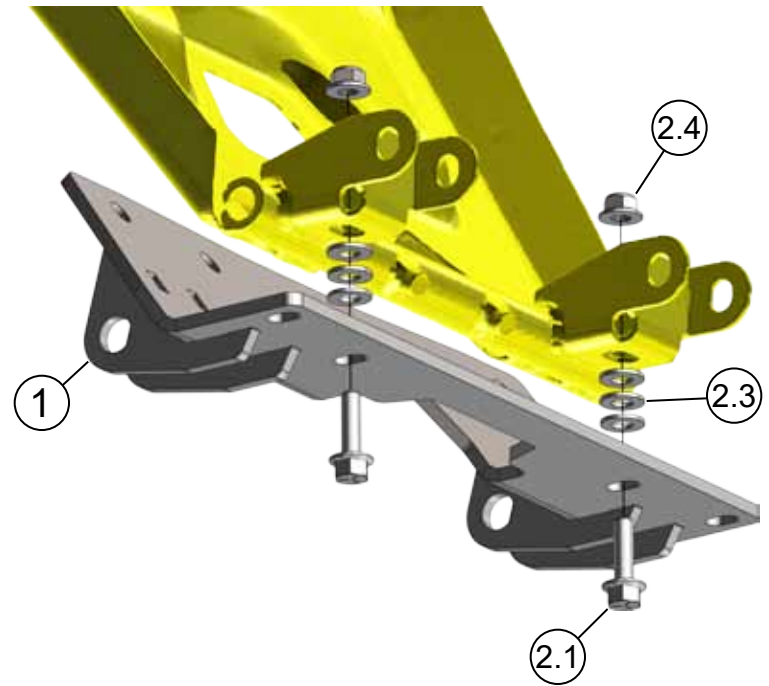
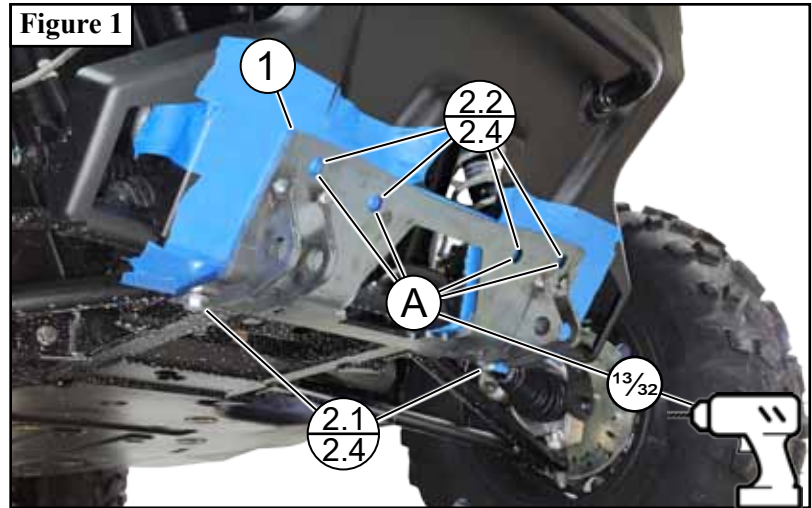
PREMIUM MODEL



INSTALLATION INSTRUCTIONS

Note: Make sure all hardware needed to complete this mount is in the package. Thoroughly read through and understand the instructions before installing. **NOTE: If the plow mount is being installed on a BASE model machine, skip step 1. If installing on a PREMIUM, skip step 2.**

1. Set plow mount (1) in place over the bottom of the front bumper of the machine. Loosely secure the bottom of plow mount (1) using bolts (2.1) and nuts (2.4) as shown in **Figure 1**.
2. Set plow mount (1) in place over the bottom of the front bumper using washers (2.3) as spacers between the plow mount and the front bumper and secure using bolts (2.1) and nuts (2.4) as shown in **Figure 2**.
3. Using plow mount (1) as a template, drill holes (A) using a 13/32" drill bit. Secure the top of plow mount (1) using bolts (2.2) and nuts (2.4) as shown in **Figure 1**. **NOTE:** be sure plow mount (1) is pushed up tightly to the front bumper before marking holes to drill.
4. Tighten all hardware evenly.



POLARIS RANGER XP 900

Plow Mount PART #105475

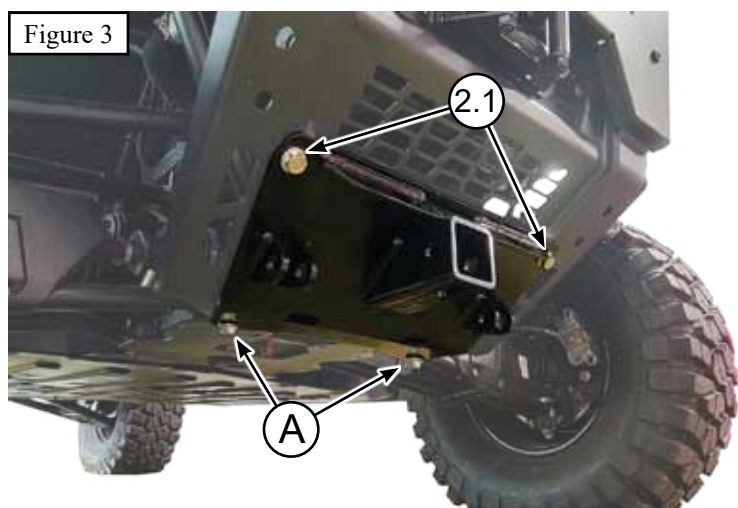
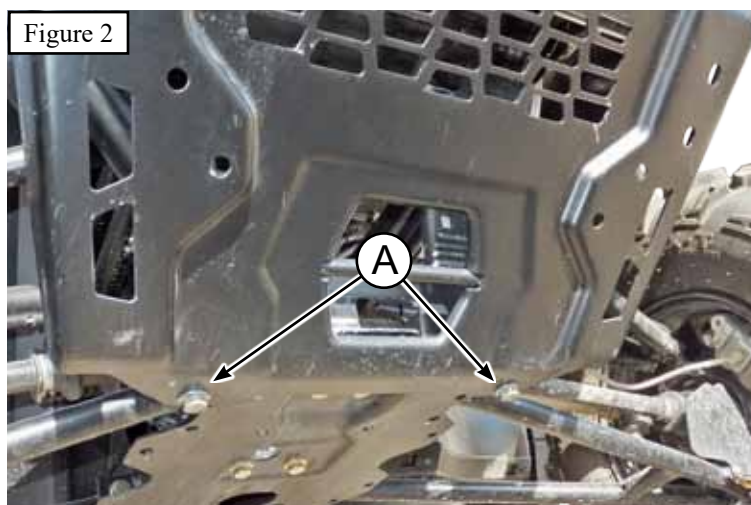
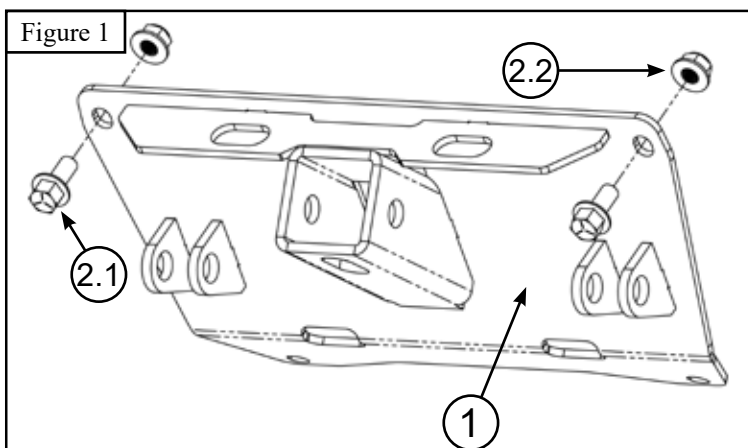
Kit Components:

Item #	Qty.	Description
1	1	Plow Mount
2	1	Hardware Kit HK-147
2.1	2	7/16"-14 X 1.00 Hex Bolt Flange GR5
2.2	2	7/16"-14 Hex Nut Flange Nylock GR5

Note: Make sure all hardware needed to complete this mount is in the package. Thoroughly read through and understand the instructions before installing.

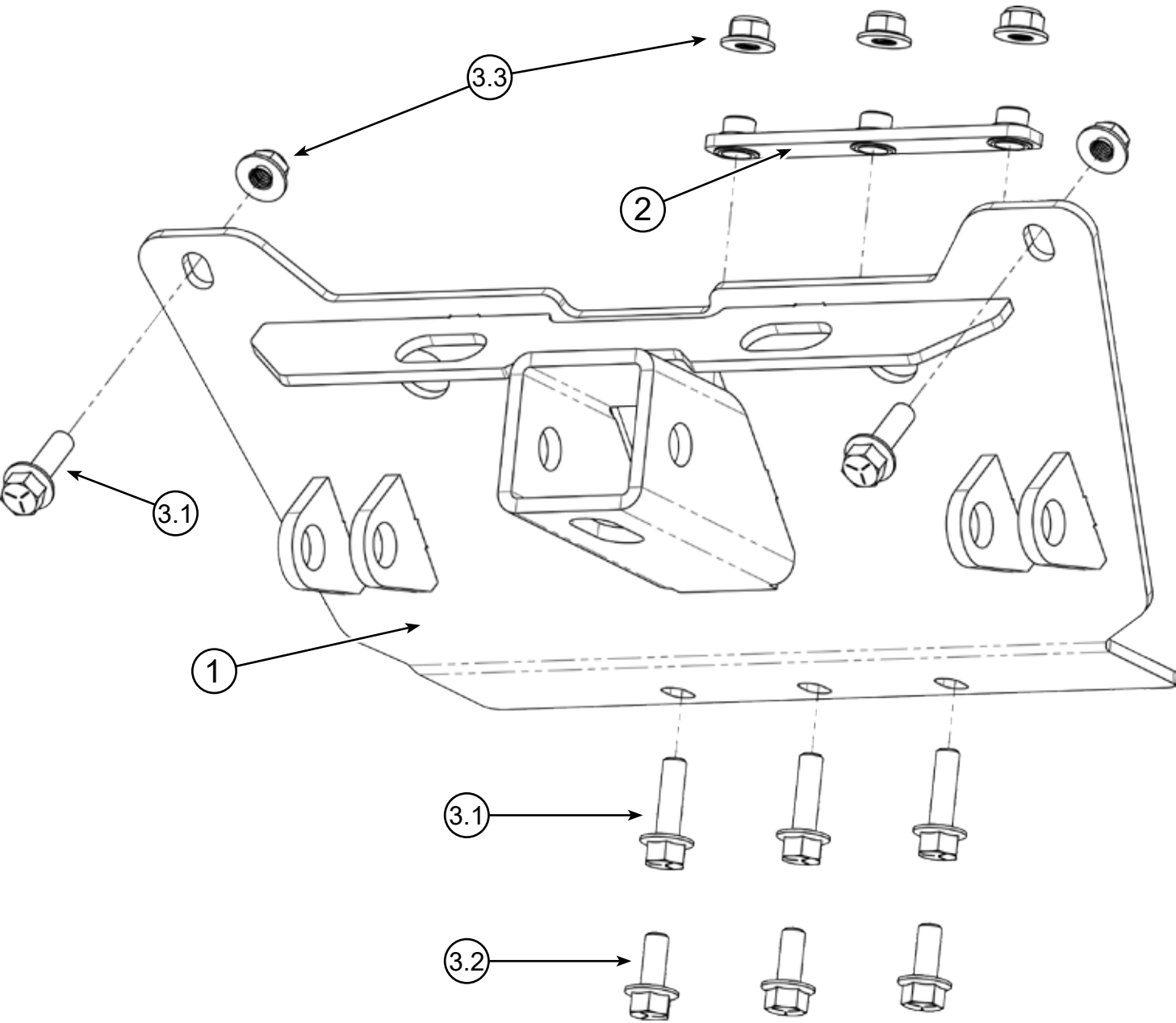
Installation Instructions:

1. Remove lower bumper bolts and nuts (A), as shown in Figure 2.
2. Place mount plate up to the machine and install bolts (2.1) and nuts (2.2), as shown in Figures 1 & 3.
3. Reinstall lower bumper bolts and nuts (A) through plow mount and frame.
4. Tighten all bolts evenly.
5. See UTV Plow Tube System instruction manual for tube attachment.



RANGER RECEIVER/PLOW MOUNT

Plow Mount PART #105255 Rev. L



Kit Components:					
Item #	Qty.	Description	Item #	Qty.	Description
1	1	Plow Mount	3.1	5	3/8" - 16 X 1.25" Hex Bolt Flange GR5 Serrated
2	1	Back Plate	3.2	3	3/8" - 16 X .88" Hex Bolt Flange GR5 Serrated
3	1	Hardware Kit HK-051	3.3	5	3/8" - 16 Hex Nut Flange Nylock

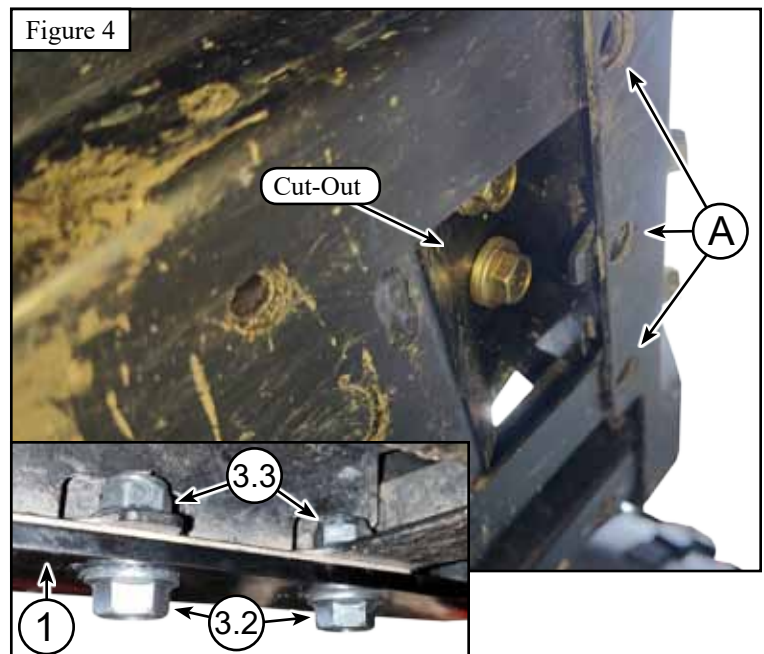
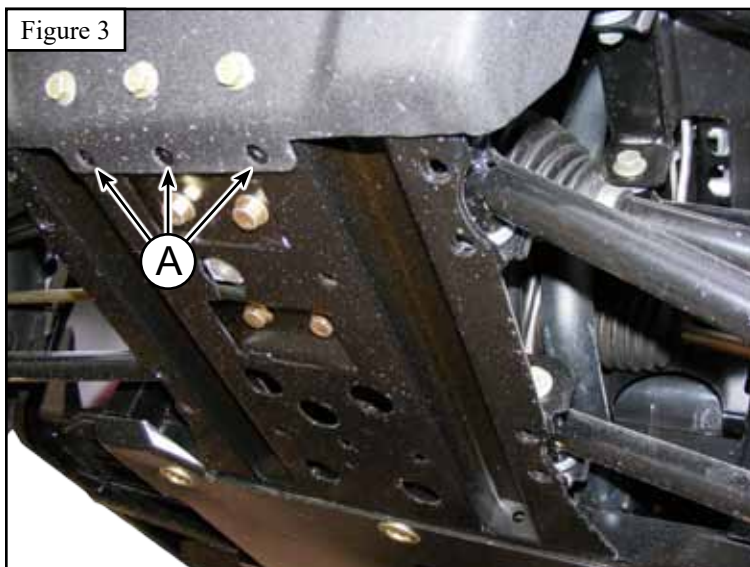
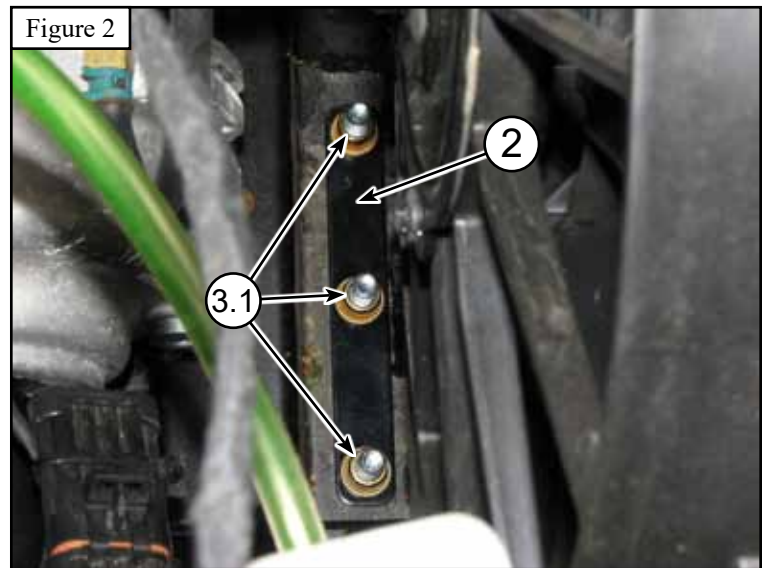
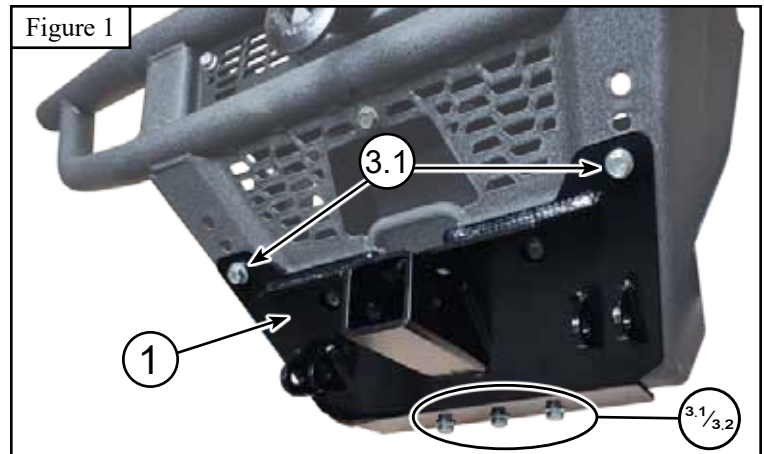


INSTALLATION INSTRUCTIONS

Note: Make sure all hardware needed to complete this mount is in the package. Thoroughly read through and understand the instructions before installing.

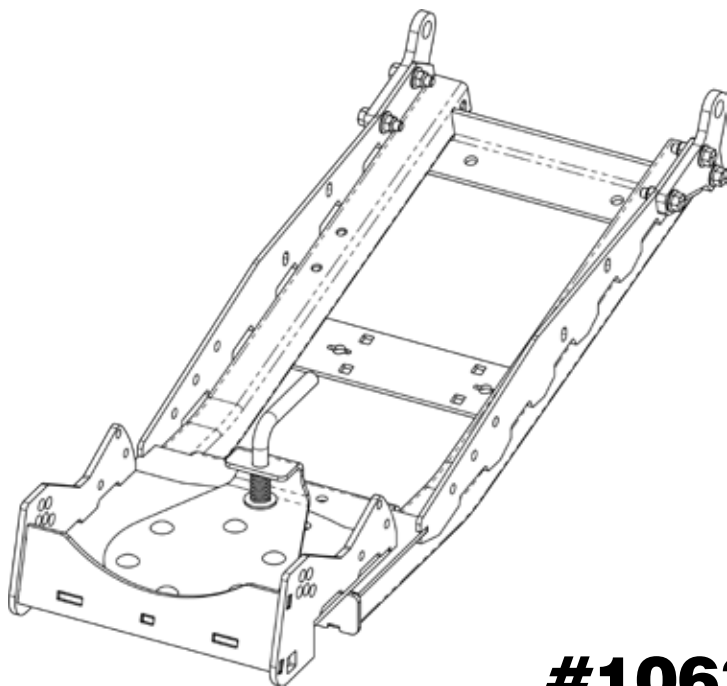
Installation Instructions

1. Place plow mount (1) up to the machine, as shown in **Figure 1**.
2. While holding the plow mount up to the machine, loosely install the upper Bolts (3.1) and Nuts (3.3), as shown in **Figure 1**.
3. For Diesel Rangers, skip to **Step 6**. For all other machines, continue to the next step.
4. Place Back Plate (2) inside the frame on the top of holes (A), as shown in **Figures 2 and 3**.
5. Attach Plow Mount (1) to bolt plate (2) using 3 Bolts (3.1), as shown in **Figures 1 & 2**.
6. If you are installing this on a Diesel Ranger and the bottom of the frame has a cut-out under the front differential as shown in **Figure 4**, Use Bolts (3.2) and Nuts (3.3) to secure the bottom of the plow mount through holes (A). The Back Plate (2) will not fit in the frame on this machine.
7. Tighten all hardware evenly.





Instruction Manual



#106300

UTV PRO 2.0

Plow Tube System



Rev-B 06/11/2026

Manual Conventions

This manual uses the following symbols to help differentiate between different kinds of information. The safety symbol is used with a key word to alert you to potential hazards associated with operating and maintaining a plow.

Follow all safety messages to avoid or reduce the risk of serious injury or death.

DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

To help you make informed decisions regarding safety, we have included instructions and information on labels. This information is provided with the intent to help avoid potential hazards that may harm you or others. It is, in no way, possible for us to inform you of every hazard you may come across with this product.

NOTE

If you have questions regarding your plow, we can help. Please call our help line at:
1-877-346-2050.

Safety Rules

WARNING

- Read this manual thoroughly before operating your plow. Failure to follow instructions could result in serious injury or death.
- Do not exceed 5 mph, even with blade raised.
- Make sure that all nuts and bolts are tightened per installation instructions.
- Never operate this KFI product with missing or damaged parts.
- Drive slowly over bumpy or rough terrain. Driving fast could cause damage to the winch (if applicable) or plow.
- Never raise the plow above point of contact as it could cause damage to machine or winch (if applicable).
- Always perform regular inspections and maintenance on plow tubes and hardware before use.
- Operate with extreme caution on slopes, steep grades, and rough terrain.
- Be aware of any possible hidden objects under the snow.
- Do not ram the blade into the pile.

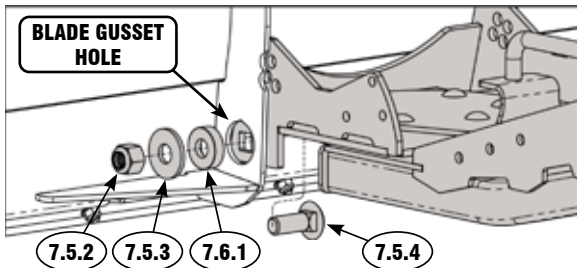
CAUTION

- Take care when installing PLOW SPRINGS as they will be under tension.
- Use care when lifting components into place.

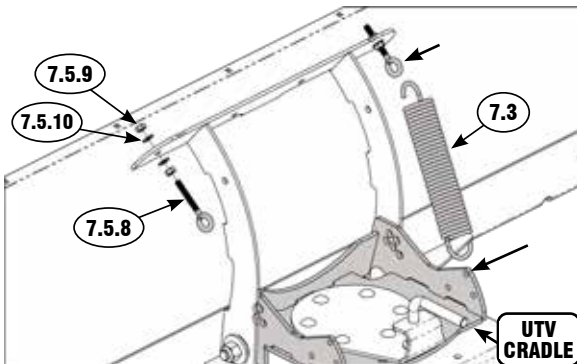
DANGER

Never stand or ride on the plow.

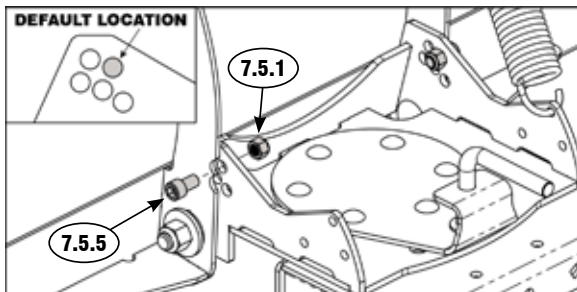
Installation Instructions



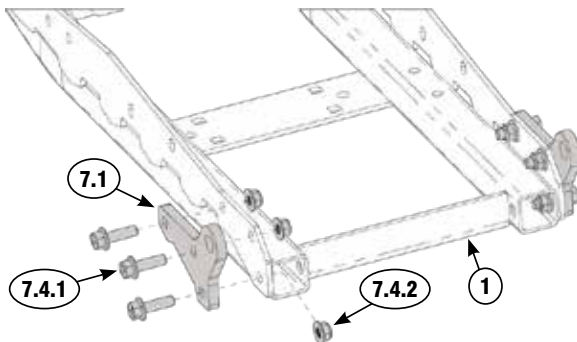
“Figure 1” Pivot Bolt Assembly



“Figure 2” Spring Assembly



“Figure 3” Pitch Adjustment Bolt
(Spring not shown for clarity)



“Figure 4” Pin Attachment Brackets

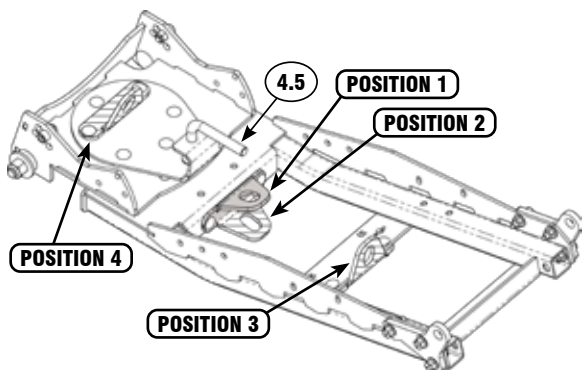
1. Install the pitch bushing (Item 7.6.1) into the blade gusset hole with the countersunk side facing inward. Secure the tube system to the blade using carriage bolt (Item 7.5.4), washer (Item 7.5.3), and lock nut (Item 7.5.2) as shown in **Figure 1**. Repeat on the opposite side.
2. Install the plow springs (Item 7.3) into the upper rear holes of the UTV cradle as shown in **Figure 2**. Attach eyebolts (Item 7.5.8) to the ends of the springs and secure them to the blade gussets using nuts (7.5.9) and washers (7.5.10). Leave the spring tension loose at this time.
3. Assemble the plow on the machine and determine the desired blade pitch. Blade pitch controls the angle at which the cutting edge contacts the ground. Each pitch adjustment hole changes blade pitch by approximately 5°.

Note: *Figure 3 shows the default pitch position and is recommended for proper blade level.*

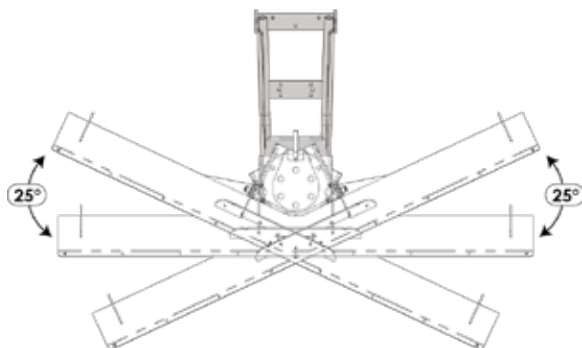
4. With the springs installed and the blade held in the desired pitch position, install socket head cap screw (Item 7.5.5) and lock nut (Item 7.5.1) into the selected pitch adjustment hole.
5. Tighten the eyebolt nuts until the desired spring tension is achieved.

Note: *Every 1/4" of additional nut travel increases spring tension by approximately 8 lbs.*

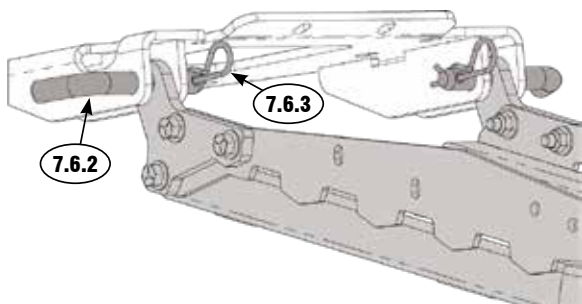
6. Install the pin attachment brackets (Item 7.1) to the push tubes (Item 1) using bolts (Item 7.4.1) and nuts (Item 7.4.2) as shown in **Figure 4**. Torque hardware to 31 lb-ft.



“Figure 5” Lift Hook Bracket Positions



“Figure 6” Blade Rotation Angle



“Figure 7” Tube System Attachment

7. The tube system provides four lift hook bracket positions. See **Figure 5**. Select the position that provides the desired lift height and cable/rope angle.

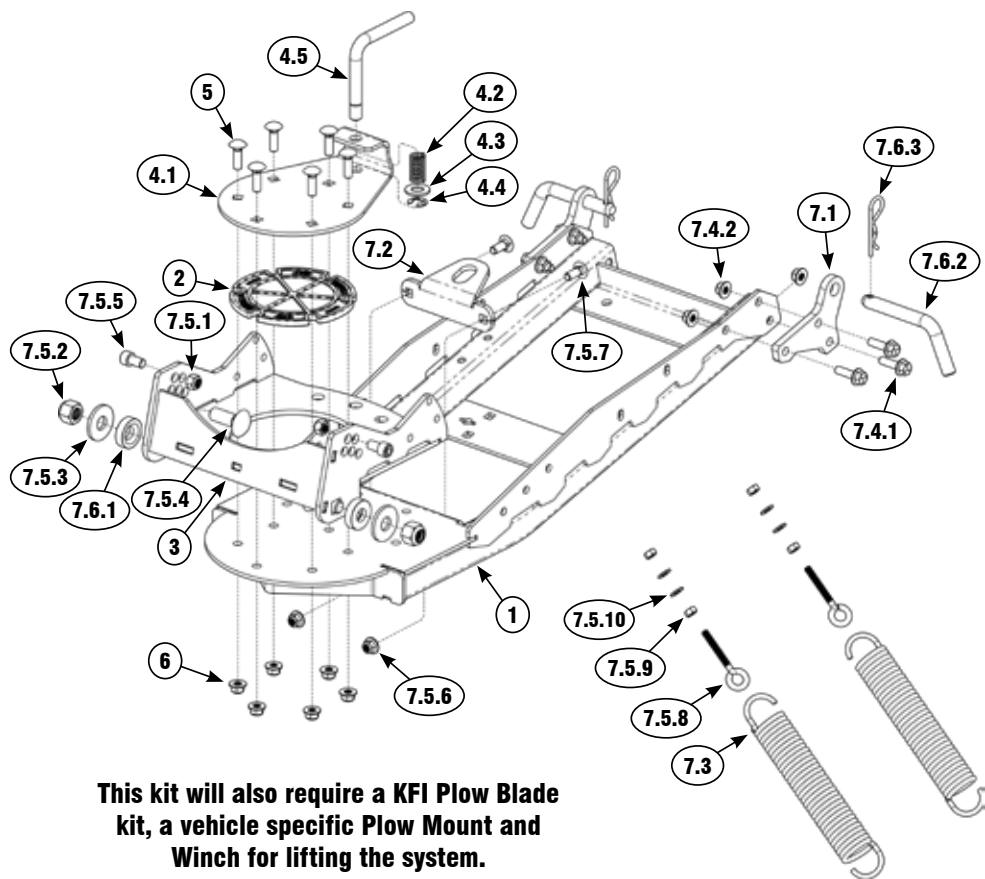
Position 1 – Default position.

Position 2 – Uses the same mounting holes as Position 1, but with the bracket flipped over to provide additional winch clearance.

Position 3 – Recommended for lower mounted winches. Install the lift hook bracket (4.5) on the underside of the push tube.

Position 4 – Recommended for upper mounted winches or severe cable angles.

8. The tube system provides three blade angle positions in 25° increments. To change blade angle, pull the pull pin (**Figure 5**, Item 4.5) and rotate the blade left or right until the desired position is reached. See **Figure 6**.
9. To attach the tube system to a KFI mount, position the assembled tube system under the machine. Raise the tube attachment points to the mount and align the mounting holes. Insert hitch pin (Item 7.6.2) through the holes and secure with bridge pin clip (Item 7.6.3) as shown in **Figure 7**.



#106300 Parts List

Item #	QTY	Part #	Description	Item #	QTY	Part #	Description
1	1	106301	UTV TUBE FRAME W/DMT	7.4.2	6	HNFN-5Z-038-16	3/8"-16 HEX FLANGE LOCK NUT
2	1	106218	PIVOT BUSHING RING	7.5	1	HK-365	HARDWARE KIT
3	1	106561	UTV CRADLE	7.5.1	2	HNN-5Z-044-14	7/16"-14 NYLOCK NUT
4	4	105139	LIFT LOCK LATCH ASSEMBLY	7.5.2	2	HNN-5Z-063-11	5/8"-11 NYLOCK NUT
4.1	1	105025	LIFT LOCK PLATE	7.5.3	2	FW-USS-Z-063	5/8" USS FLAT WASHER
4.2	1	P800267	COMPRESSION SPRING	7.5.4	2	CB-5Z-063-11-175	5/8"-11 X 1 3/4" CARRIAGE BOLT
4.3	1	P890007	1/2" FLAT WASHER SAE	7.5.5	2	SHS-Z-044-14-075	7/16"-14 X 3/4" HEX S.H.C. SCREW
4.4	1	P800268	EXTERNAL RETAINING RING	7.5.6	2	HNFN-5Z-038-16	3/8"-16 HEX FLANGE LOCK NUT
4.5	1	105026	PULL PIN	7.5.7	2	CB-5Z-038-16-150	3/8"-16 X 1 1/2" CARRIAGE BOLT GR5 ZINC
5	6	P890000	3/8"-16 X 1-1/4" CARRIAGE BOLT GR5 ZINC	7.5.8	2	P800249	5/16"-18 X 9/16" X 3 3/8" EYEBOLT
6	6	P890015	3/8"-16 HEX FLANGE LOCK NUT	7.5.9	4	HN-5Z-031-18	5/16"-18 HEX NUT
7	1	106315	KIT - UTV PUSH TUBE PARTS	7.5.10	4	FW-SAE-Z-031	5/16" FLAT WASHER, SAE
7.1	2	106302	PIN ATTACHMENT BRACKET	7.6	1	105213	KIT-UTV BUSHING/PINS
7.2	1	105138	LIFT HOOK BRACKET	7.6.1	2	105214	PITCH BUSHING
7.3	2	P800304	PLOW SPRINGS	7.6.2	2	P800558	5/8" HITCH PIN
7.4	1	HK-398	HARDWARE KIT	7.6.3	2	P800559	BRIDGE PIN CLIP
7.4.1	6	HBF-5Z-038-16-125	3/8"-16 X 1 1/4" FLANGE HEX BOLT				



2 Year Limited Warranty

Kappers Fabricating, Inc. (KFI) warrants to the original purchaser that the product is free from defects in materials and workmanship for a period of two (2) years from the original date of purchase. We will repair or replace, at our discretion, parts found to be defective due to materials or workmanship. This warranty is subject to the following limitations and exclusions:

Commercial Use: The warranty period for any product used for commercial or rental is limited to ninety (90) days from the date of original purchase.

Limitations: This warranty applies only to products which have been properly assembled, adjusted, and operated in accordance with the instructions contained within this manual. This warranty does not apply to any product of Kappers Fabricating, Inc. that has been subject to alteration, misuse, abuse, improper assembly or installation, or shipping damage.

Exclusions: Excluded from this warranty are normal wear, normal adjustments, and normal maintenance.

THIS WARRANTY DOES NOT APPLY TO ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES AND ANY IMPLIED WARRANTIES ARE LIMITED TO THE SAME TIME PERIODS STATED HEREIN FOR ALL EXPRESSED WARRANTIES.

THE WARRANTY SET FORTH ABOVE IS THE ONLY WARRANTY. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Some states do not allow the exclusion of implied warranties or the exclusion or limitation of liability for incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights. You may also have other rights that vary from state to state.

In the event you have a claim under this warranty, contact KFI's Technical Service and KFI will troubleshoot any issue via phone or e-mail. If the problem is not corrected by this method, KFI will, at its option, authorize evaluation, repair or replacement of the defective part or component at a KFI Service Center. KFI will provide you with a case number for warranty service. Please keep it for future reference. Repairs or replacements without prior authorization, or at an unauthorized repair facility, will not be covered by this warranty.

All transportation charges, damage, or loss incurred during transportation of parts submitted for replacement or repair under this warranty shall be borne by the purchaser. Should you have any questions concerning this warranty, please contact us toll-free at 1-877-346-2050. The model number, serial number (if applicable), date of purchase, and the name of the authorized KFI dealer from whom you purchased the product will be needed before any warranty claim can be processed.

For warranty inquiries outside the U.S.A. and Canada, contact your local dealer/distributor.

For countries not covered by a local dealer/distributor, please contact us at www.kfiproductions.com.

Product Registration

Please register your product with Kappers Fabricating, Inc. (KFI) within fifteen (15) days of purchase to assist us in handling any warranty issues that may arise by filling out this Registration card and submitting it with a copy of your sales receipt from one of KFI's official resellers.

Product registration can also be done online at www.kfiproductions.com/registration.html

Failure to complete and return this Registration card does not diminish your warranty rights.

Please refer to the above section for complete terms of this warranty.

WARRANTY IS NON-TRANSFERABLE

Please Print Clearly

Model # _____

Name _____

Street Address _____

City _____ State _____ Zip Code _____

Phone _____ Fax _____ Email _____

Date of Purchase _____ Authorized KFI Dealer Name _____

Fill out and send this section to:
Kappers Fabricating, Inc.
Warranty Registration Department
1015 Industrial Drive, PO Box 32
Spring Valley, MN 55975, U.S.A.



Kappers Fabricating, Inc.

**1015 Industrial Dr.
Spring Valley, MN 55975**

1-877-346-2050