



SNOW PLOW BLADE WINGS

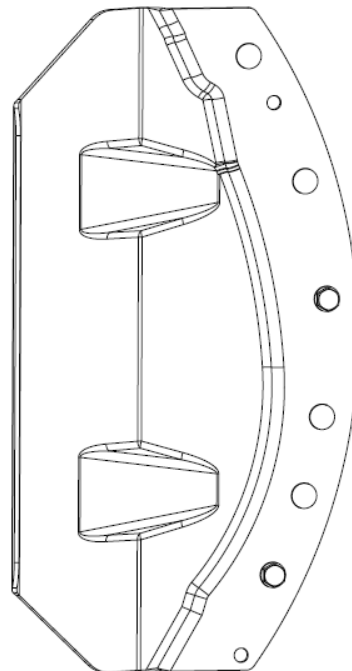
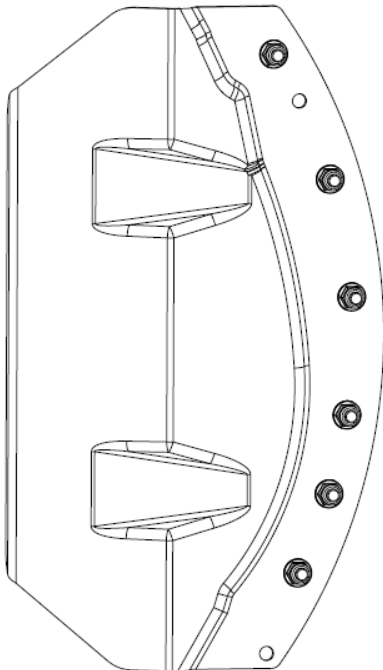
P/N 31-0010

ASSEMBLY / INSTALLATION MANUAL

Application

PLOW BLADES NO. 31-0048, 31-0052, 31-0060, 31-0066 or 31-0072

Before you begin, please read these instructions and check to be sure all parts and tools are accounted for. The following instructions contain details required to install and service the contents of this kit.



INTRO

Thank you for purchasing Kolpin engineered products. With proper installation, usage, care, and maintenance, your Kolpin product will last for years to come.

BEFORE YOU BEGIN

- Your Kolpin accessory is exclusively designed for your vehicle.
- Read and understand the entire installation manual, including all installation instructions, operating instructions, safety warnings and guidelines before installing or operating your accessory. Failure to comply may result in damage to the product and / or vehicle, and can lead to hazards up to and including death.
- Verify all parts and tools are accounted for. If parts are missing, do not return to the store. Call us for help, **Toll Free 1-877-956- 5746**
- Follow all steps correctly and in the sequence described.
- Keep these instructions for future reference or for informational requests.
- To facilitate installation, make sure that your vehicle is clean and free of debris.
- All directions referring to right and left are from the rider perspective when sitting on the machine.

ASSEMBLY TIME

Approximately 12 minutes

SAFETY INFORMATION

Please read and understand all Cautions, Notices, and Warnings in this manual before you begin. In order to protect you and your ATV / UTV, certain parts of the plow system and / or hardware are designed to fail when the equipment is over-stressed.

Follow these guidelines to ensure satisfactory operation:

- Read this manual and your ATV / UTV operators manual before use.
- Periodically check for wear and tightness of all fasteners. Replace or re-torque fasteners as necessary.
- Before first use, set plow in the furthest right or left angled position to check for interference with the vehicle.
- Operate with extreme caution on slopes and rough terrain. Be familiar with the area before you plow.
- Be aware of immovable objects that could be hidden in the area you are plowing.
- To avoid damage when pushing snow into a pile, reverse direction before raising the plow blade.
- Do not ram the plow blade into piles of snow.
- For best results, set the suspension preload of your ATV / UTV to the stiffest setting.
- To reduce steering effort and increase mobility, set the air pressure of your tires to the maximum pressure specification.
- The plow skids are adjustable. General skid setting is even with the plow wear bar bottom edge, higher settings reduce the chance of rocks and gravel from being collected.
- To increase traction during plow operation, operators can try: Securing weight to the ATV / UTV for additional tire downforce, reducing tire air pressure, or installing tire chains.



WARNING



TO AVOID SERIOUS INJURY OR DEATH:

1. DO NOT EXCEED 5 MPH (8 KMH) WITH BLADE INSTALLED
2. OPERATE WITH EXTREME CAUTION ON SLOPES, STEEP GRADES, AND ROUGH TERRAIN
3. ALLOW NO RIDERS ON BLADE OR ATV WHILE MOVING OR STATIONARY
4. KEEP BYSTANDERS AWAY FROM THE BLADE OR ATV WHILE MOVING OR STATIONARY
5. WHEN PUSHING HEAVY MATERIAL, DIRECTION CONTROL MAY BECOME DIFFICULT
6. BEFORE ADJUSTING BLADE: STOP ATV ENGINE; SET AND LOCK BRAKES; RAISE AND LOCK BLADE
7. LOWER BLADE TO DOWN POSITION WHEN BLADE AND ATV ARE NOT IN USE
8. READ BLADE INSTRUCTION SHEETS AND ATV OWNER'S MANUAL

REQUIRED SOLD SEPARATELY

Only parts for installation of the Plow Mounting Bracket Kit are included. For complete snow plow system installation, additional items are required such as a plow push frame, plow blade, winch, and winch mount. See www.Kolpin.com for products to complete your plow system.

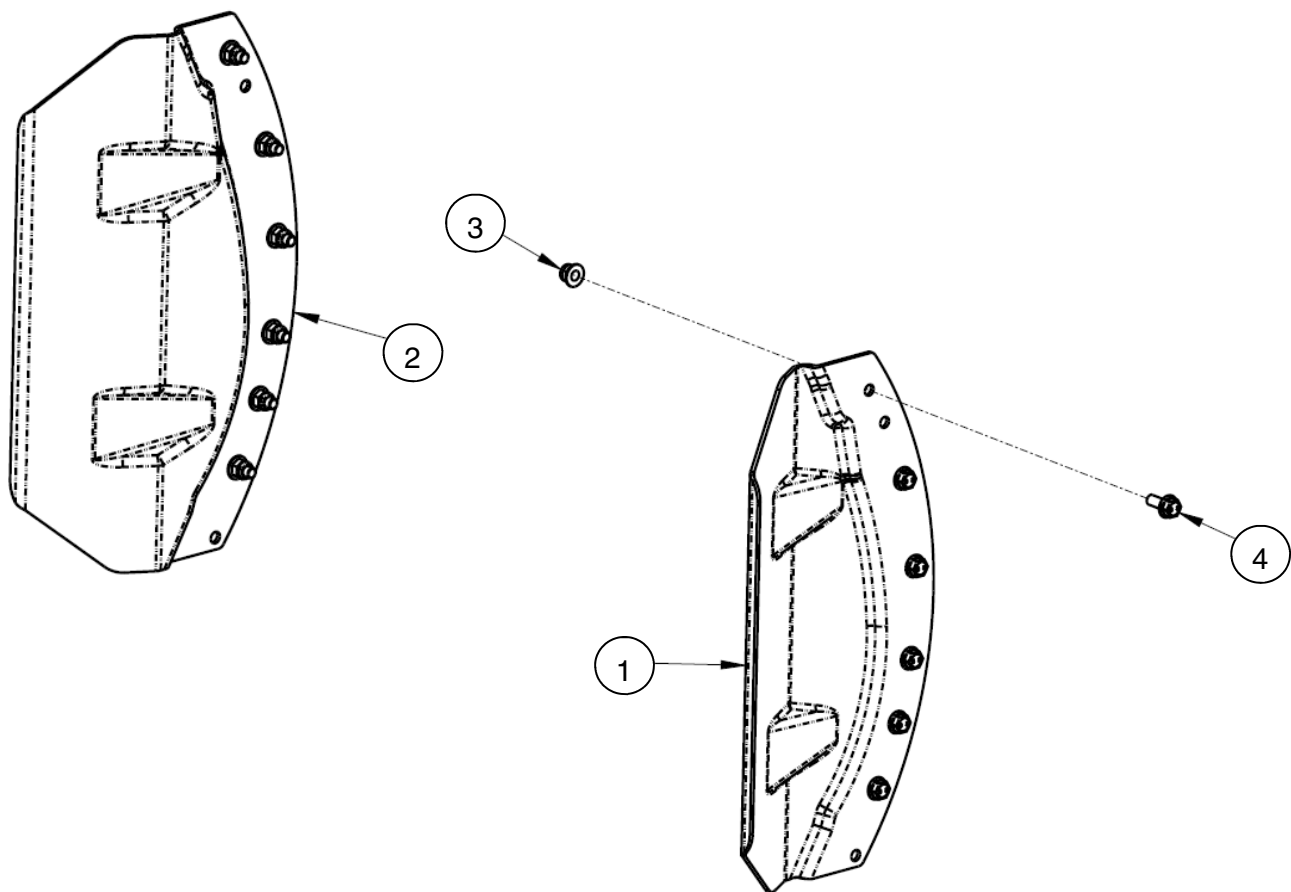
TOOLS REQUIRED

- Safety Glasses
- Socket Set, Metric
- Torque Wrench
- Wrench Set, Metric

KIT CONTENTS

Item	Qty	Part Description	Part Number
1	1	Left Wing Plate, Painted	-
2	1	Right Wing Plate, Painted	-
3*	12	Hex Flange Locknut, Zinc Plated, M8-1.25	-
4*	12	Hex Flange Bolt, Zinc Plated, M8-1.25 x 20mm LG	-
5	1	Instruction Guide (not shown)	

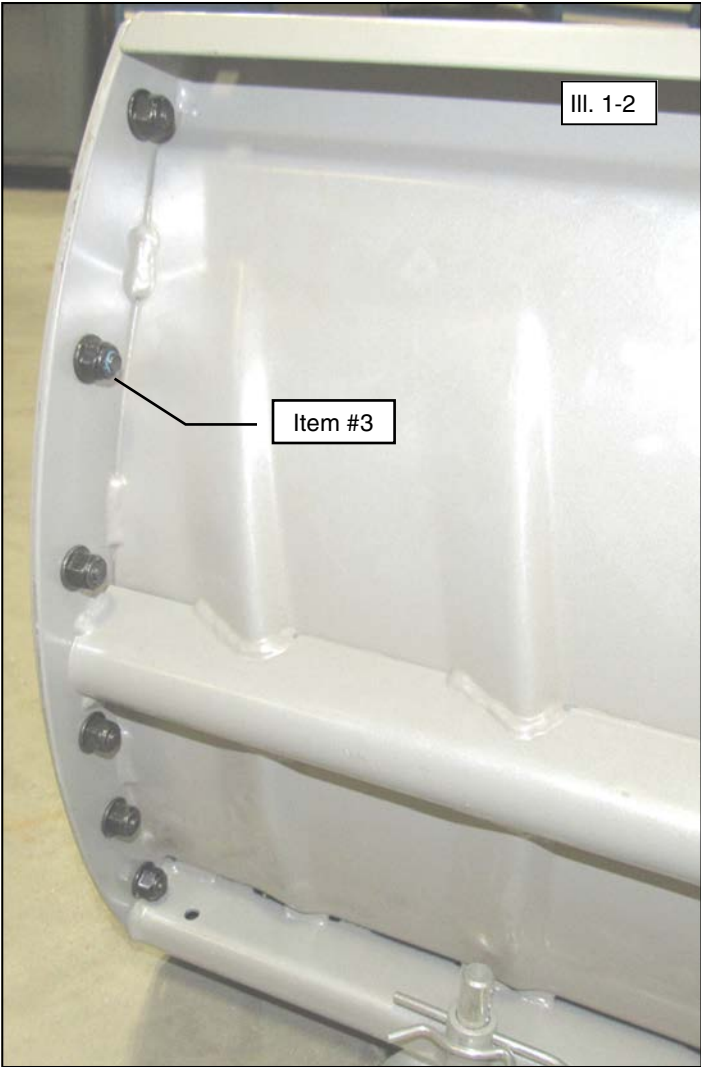
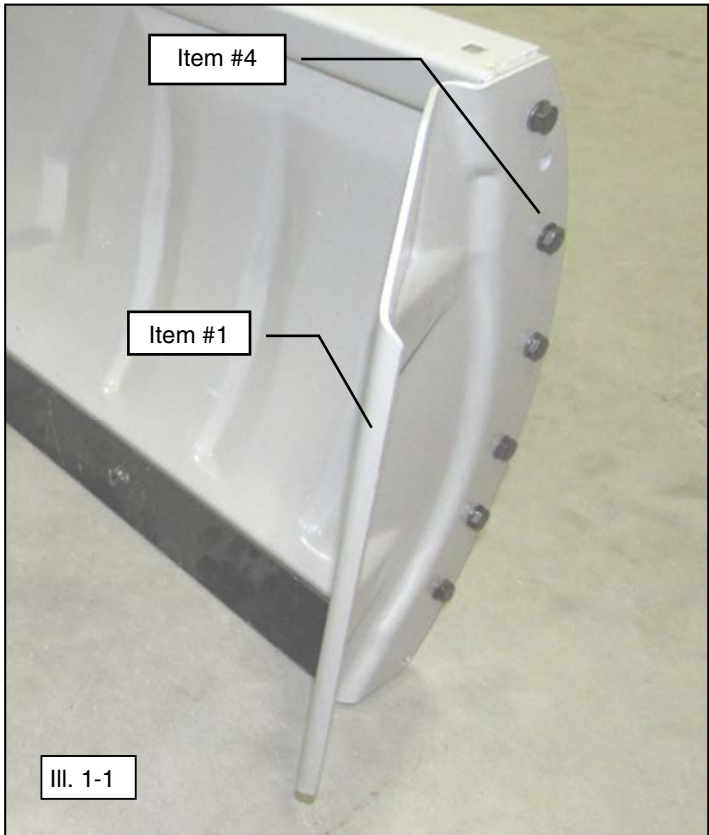
Items marked (*) are included in Hardware Kit PN 31-0011



WING INSTALLATION ONTO PLOW
BLADES:

- 1. Install left wing plate (item #1) onto the left blade edge. Match up the wing hole pattern with the hole pattern on blade sidewall. Attach wing to sidewall using M8 bolts (item #4) as shown. Fasten using M8 locknuts (item #3). (See illustrations 1-1 and 1-2).
Note, each wing plate is formed to match end of blade side profile.
- 2. Tighten to M8 specification.
- 3. Repeat installation for the right side.

 = T
8MM FASTENER TORQUE: 17 ft. lbs. (23 Nm)





One Year Limited Warranty

For the period of one (1) year from the purchase date, Kolpin will replace for the original purchaser, free of charge, any part or parts found upon examination by Kolpin to be defective in material, workmanship, or both.

All transportation costs incurred submitting product to Kolpin for warranty consideration must be borne by the purchaser. If Kolpin determines that the product must be returned to the factory for credit, please call 1-877-956-5746 for a Return Merchandise Authorization (RMA) number and shipping instructions.

This warranty does not apply to parts that have been damaged by accident, alteration, abuse, improper maintenance, normal wear, or other causes beyond the manufacturer's control. In order to protect you and your ATV, certain parts of the plow system and/or hardware are designed to fail when the equipment is over-stressed. Parts that are lost due to loosening and improper maintenance are not covered under warranty. This warranty does not cover removal or reinstallation labor fees of the plow system and related components.

Peripheral products such as engines, electric motors, and actuators may carry an original manufacturer's warranty. Most hardware is general in nature and is easily obtained locally. Be sure to replace with minimum metric class 8.8 specification.

Kolpin Outdoors, Inc.

Telephone: (763)-478-5800

Toll Free: (877)-956-5746

Fax Number: (800)-245-7569

www.kolpin.com

Email: customerservice@kolpin.com



10-0145 Plow Marker Kits Owner's Manual / Guide du propriétaire

Place the plow markers 1" inside the outer edge on the top of the plow blade.
Mark the blade with a paint pen. Drill a 5/16" hole at the mark and attach
the plow marker with the provided 5/16" x 1" bolt, flat washers and nylock nut.

*****WARNING*****

Be sure to drill hole in correct spot
Know that the blade is still wider than the marker shows
Drill can be dangerous... use caution

Placez les repères pour chasse-neige à 1 po à l'intérieur du rebord et à environ 1 po du dessus de la lame. Marquez l'emplacement du repère à l'aide d'un stylo à retouches. Percez un trou de 5/16 po à la marque et fixez le repère pour chasse-neige en utilisant le boulon de 5/16 x 1 po, les rondelles plates et l'écrou nylock fournis.

*****Avertissement*****

*Assurez-vous de percer le trou au bon endroit.
Souvenez-vous que la lame dépasse légèrement des repères.
Soyez prudent lors de l'utilisation d'une perceuse.*



10-0145 Plow Marker Kits Owner's Manual / Guide du propriétaire

Place the plow markers 1" inside the outer edge on the top of the plow blade.
Mark the blade with a paint pen. Drill a 5/16" hole at the mark and attach
the plow marker with the provided 5/16" x 1" bolt, flat washers and nylock nut.

*****WARNING*****

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*****Avertissement*****

*Assurez-vous de percer le trou au bon endroit.
Souvenez-vous que la lame dépasse légèrement des repères.
Soyez prudent lors de l'utilisation d'une perceuse.*





HIGH RISE POWER ANGLE KIT

P/N 33-0100

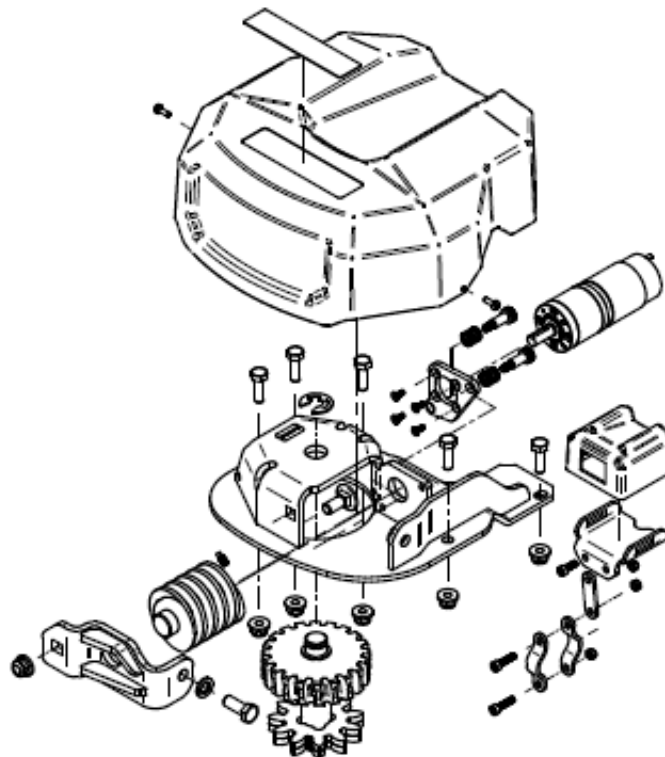
OWNER'S MANUAL

Application

HIGH RISE PUSH TUBE 33-0000 & 34-0000

**ATTENTION DEALER: CUSTOMER MUST RECEIVE A COPY OF THIS MANUAL
AT THE TIME OF SALE.**

Before you begin, please read these instructions and check to be sure all parts and tools are accounted for. These instructions will help you to become familiar with operation of the plow push frame. Instructions contain details required to install, service the contents of this kit, for adjustment and maintenance.



OPERATING INSTRUCTIONS

Congratulations! You've just purchased one of the industry's top plow system component. The High Rise Power Angle works great for all types of plowing. With proper care and maintenance, your power angle kit will last for many years!

The power angle motor design allows the operator to select a finite range of angled left-or-right blade positions while sitting on the ATV. The heavy-duty gear system is designed to absorb the impact loading during normal operation. Once installed, the power angle kit will remain on the High Rise push frame and includes a wire disconnect terminal. Additionally, this power angle will handle light to medium-duty summer landscape work in moderate climates.

NOTICE
Plow operation requires additional components for operation: <i>Kolpin Snow Plow Blade, High Rise Push Frame, Winch Kit, Mid-Body Plow Mount *</i>
<i>*These components may be specific to your vehicle.</i>

Please read and understand all assembly instructions, notices and warnings before assembling and operating your High Rise Power Angle plow system.

Follow these guidelines to ensure satisfactory operation:

- Read this manual and your ATV operators manual before use.
- Periodically check for wear and tightness of all fasteners. Replace or re-torque fasteners as necessary.
- Before first use, set plow in the furthest right or left angled position to check for clearance between the plow and front tires.
- Do not operate angling kit in temperatures above 65°F (18°C) or below -20°F (-28°C).
- *The Power Angle motor provides enough torque to pivot when blade is in lifted position only. **Do not pivot system when blade is resting on the ground. Damage may result.***
- *Once the plow is not turning anymore (due to an obstacle or being locked in the furthest angle position on either side), release the switch.*
- **Do not keep operating the angling kit when the plow is locked. Damage may result.**
- Operate with extreme caution on slopes and rough terrain. Be familiar with the area before you plow.
- Be aware of immovable objects that could be hidden in the area you are plowing.
- To avoid damage when pushing snow into a pile, reverse direction before raising the plow blade.
- Do not ram the plow blade into piles of snow. ****Slow down before hitting a pile.****
- For best results, set the suspension preload of your ATV to the stiffest setting.
- To reduce steering effort and increase mobility, set the air pressure of your tires to the maximum pressure specification.
- The plow skids are adjustable. General skid setting is even with the plow wear bar bottom edge, higher settings reduce the chance of rocks and gravel from being collected.
- To increase traction during plow operation, operators can try: Securing weight to the ATV for additional tire downforce, reducing tire air pressure, or installing tire chains.
- The plow blade assembly is designed to 'trip' when it strikes an object or digs in too far. When pressure is released, the plow springs back into position. ***Spring tension can be increased by tightening the locknuts on the bottom of the eyebolts. For less spring tension, loosen the locknuts.***
- Always wear appropriate protective clothing as recommended in ATV's operator's manual.
- Keep away from blade and moving parts during operation.

SAFETY INFORMATION

Our plow systems were designed with your safety in mind. Please read and understand all Cautions, Notices and Warnings in this manual before you begin. In order to protect you and your ATV, certain parts of the plow system and/or hardware are designed to fail when the equipment is over-stressed.

**WARNING**

TO AVOID SERIOUS INJURY OR DEATH:

1. **DO NOT EXCEED 5 MPH (8 KMH) WITH BLADE INSTALLED**
2. **OPERATE WITH EXTREME CAUTION ON SLOPES, STEEP GRADES, AND ROUGH TERRAIN**
3. **ALLOW NO RIDERS ON BLADE OR ATV WHILE MOVING OR STATIONARY**
4. **KEEP BYSTANDERS AWAY FROM THE BLADE OR ATV WHILE MOVING OR STATIONARY**
5. **WHEN PUSHING HEAVY MATERIAL, DIRECTION CONTROL MAY BECOME DIFFICULT**
6. **BEFORE ADJUSTING BLADE: STOP ATV ENGINE; SET AND LOCK BRAKES; RAISE AND LOCK BLADE**
7. **LOWER BLADE TO DOWN POSITION WHEN BLADE AND ATV ARE NOT IN USE**
8. **READ BLADE INSTRUCTION SHEETS AND ATV OWNER'S MANUAL**

BEFORE YOU BEGIN:

- Your Kolpin accessory is exclusively designed for your vehicle.
- Please read and understand all instructions.
- Verify all parts and tools are accounted for.
- To ensure a satisfactory installation, follow all steps correctly and in the sequence described.
- Keep these instructions for future reference or for informational requests.
- To facilitate installation, make sure that your vehicle is clean and free of debris.
- All directions referring to right and left are when the rider is sitting on the machine

TOOLS REQUIRED:

- 10mm wrench
- 8mm wrench or 8mm socket
- 13mm wrench and 13mm socket
- 4mm allen key wrench
- Long nose pliers or spring puller or shoe-string sized rope
- For UTV installations only, plastic cutting tool (Dremel tool or drill bit)

APPROXIMATE ASSEMBLY TIME: 30 minutes

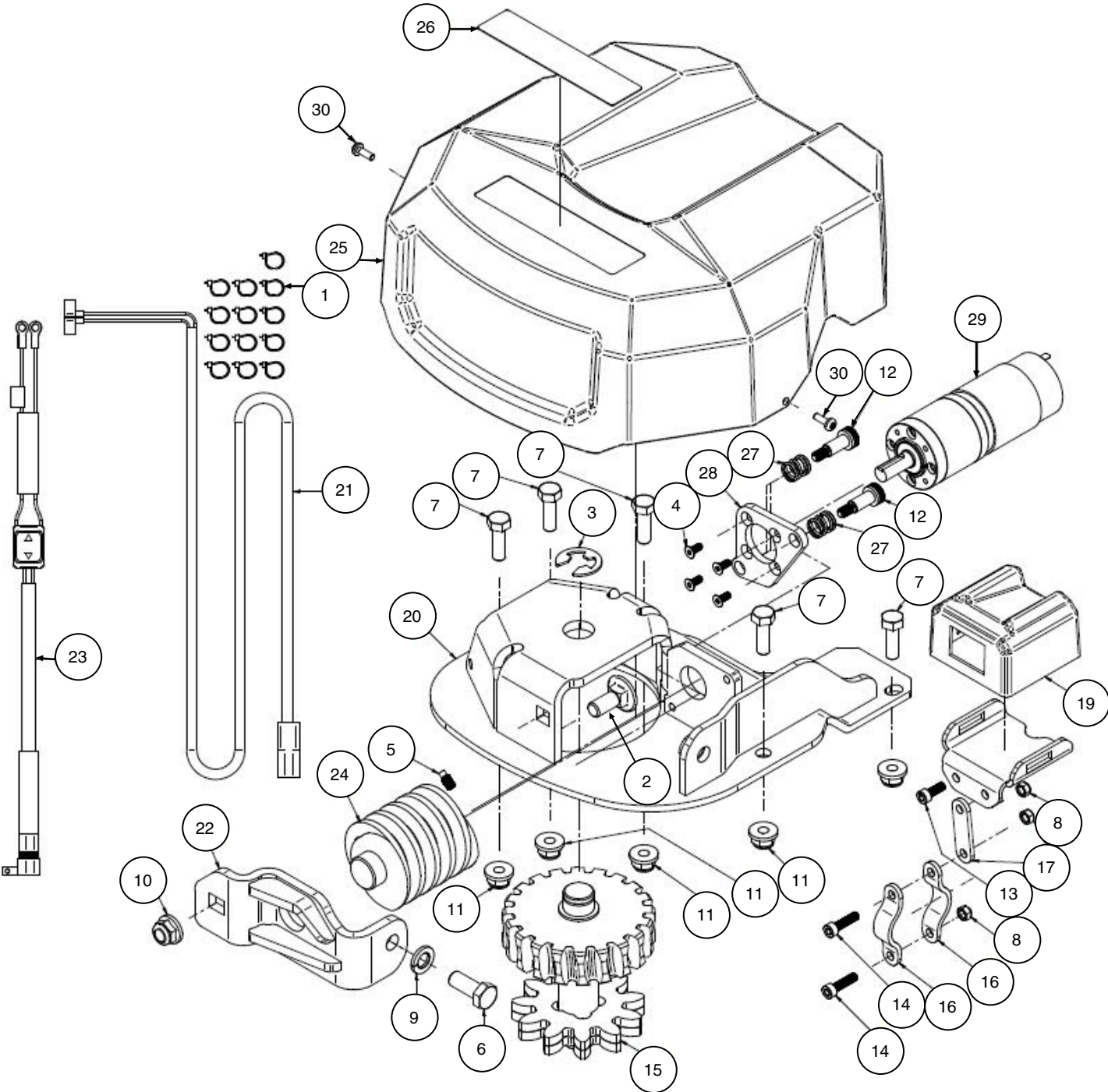
Note: The High Rise Power Angle kit comes mostly assembled from factory. Some assembly is required.

RE-TORQUE ALL BOLTS AND NUTS AFTER THE FIRST 30 MINUTES OF USE.

Kit Contents:

Item	Qty	Part Description	Part Number
1	13	Cable Tie, 141mm long	-
2	1	Carriage Bolt, Zinc Plated, M10-1.5 x 25mm	-
3	1	Circlip, Zinc Plated	-
4	4	Flat Socket Head Cap Screw, Zinc Plated, M4-0.7 x 10mm	-
5	1	Set Screw, Zinc Plated, M6-1.0 x 12mm	-
6	1	Hex Bolt, Zinc Plated, M10-1.5 x 25mm	-
7	5	Hex Bolt, Zinc Plated, M8-1.25 x 25mm	-
8	3	Hex Nylon Nut, Zinc Plated, M5-0.8	-
9	1	Lock Washer, Zinc Plated, M10	-
10	1	Nylon Flange Nut, Zinc Plated, M10-1.5	-
11	5	Nylon Flange Nut, Zinc Plated, M8-1.25	-
12	2	Shoulder Screw, Zinc Plated, Dia. 8mm x 14mm, M6-1.0	-
13	1	Socket Head Cap Screw, Zinc Plated, M5-0.8 x 14mm LG	-
14	2	Socket Head Cap Screw, Zinc Plated, M5-0.8 x 20mm LG	-
15	1	Gear Assembly, Zinc Plated	-
16	2	Handlebar Clamp, Painted	-
17	1	Straight Section Bracket, Painted	-
18	1	Switch Bracket, Painted	-
19	1	Plastic Handlebar Switch Cap	-
20	1	Welded Frame Assembly, Zinc Plated	-
21	1	Wiring Harness Assembly (motor side)	-
22	1	Plate Assembly, Zinc Plated	-
23	1	ATV/UTV Wiring Harness with Switch and Fuse (vehicle side)	-
24	1	Worm Gear, Zinc Plated	-
25	1	Plastic Motor Cap	33-0120
26	1	Decal	-
27	2	Spring	-
28	1	Motor Mounting Plate, Zinc Plated	-
29	1	Electric Motor	33-0111
30	2	Self-Tapping Screw, Zinc Plated, M4-0.7 x 12mm LG	-
31	1	Instruction Guide (not shown)	-

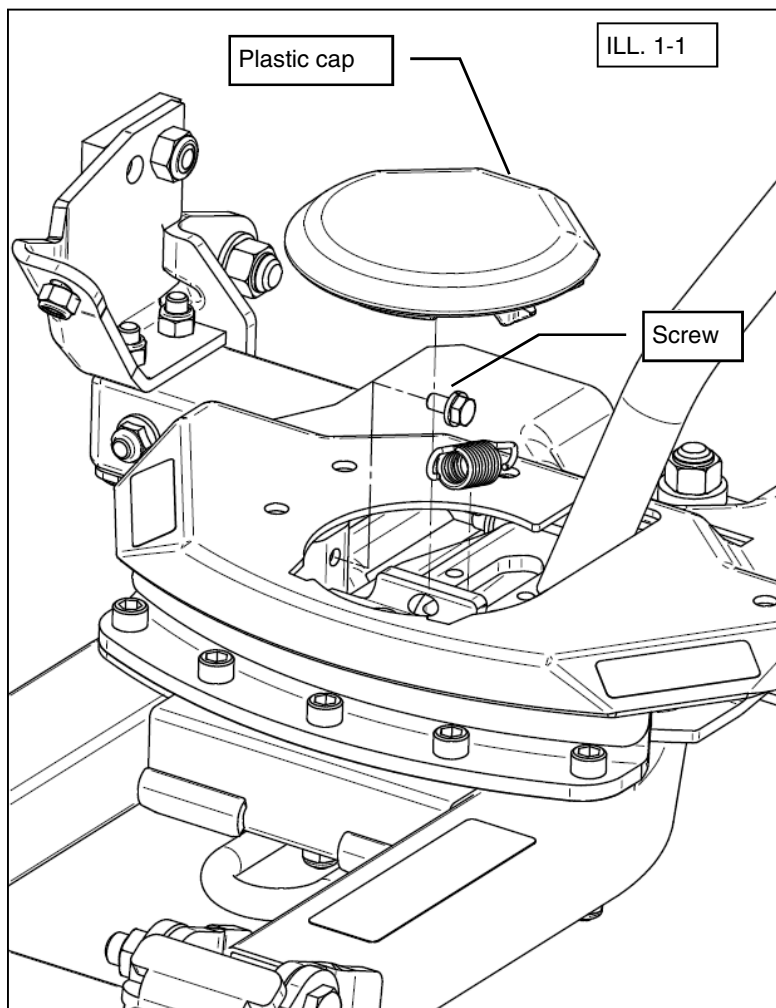
Kit Contents (continued):



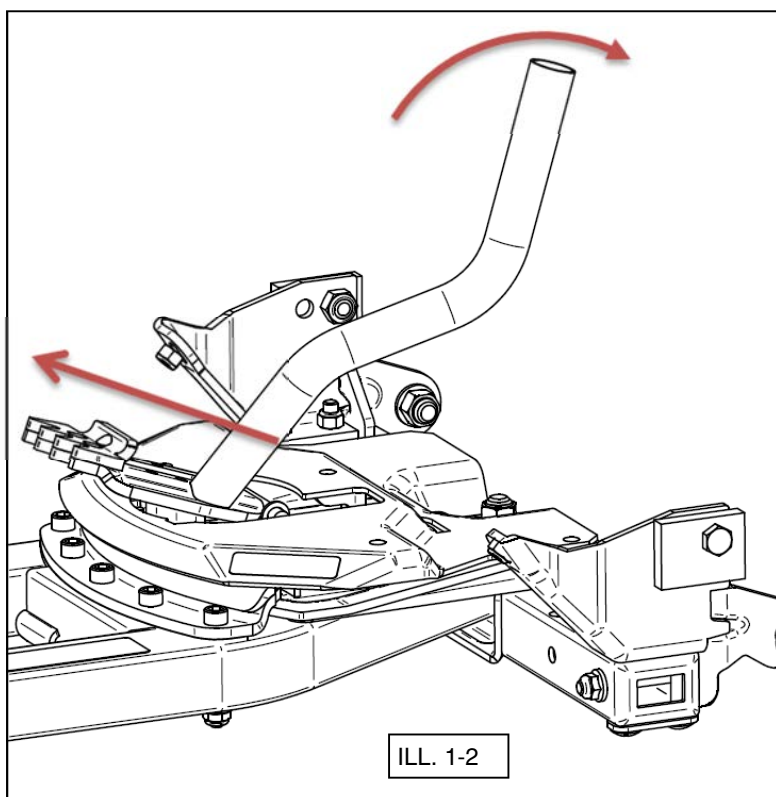
ASSEMBLY INSTRUCTIONS:

INSTALLATION PREP:

1. Remove the plastic cap from the push frame. Remove the spring and the screw securing the angling arm as shown. Using a rope or a spring puller to pull on the higher side allows for easy removal of spring. (See illustration 1-1).

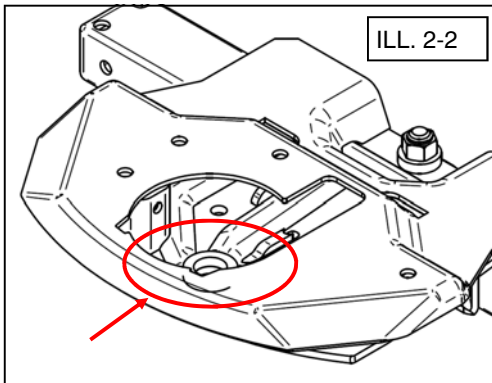
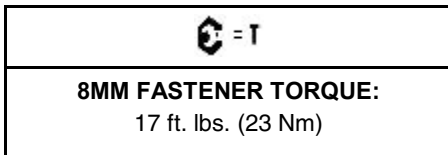


2. Tilt the angling arm up toward the blade, then pull it toward the ATV. The arm will come out of push frame. (See illustration 1-2).

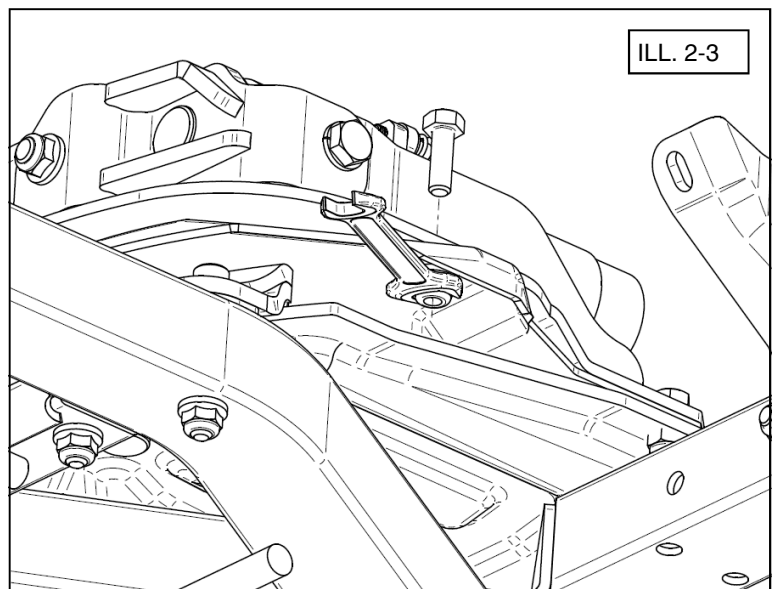
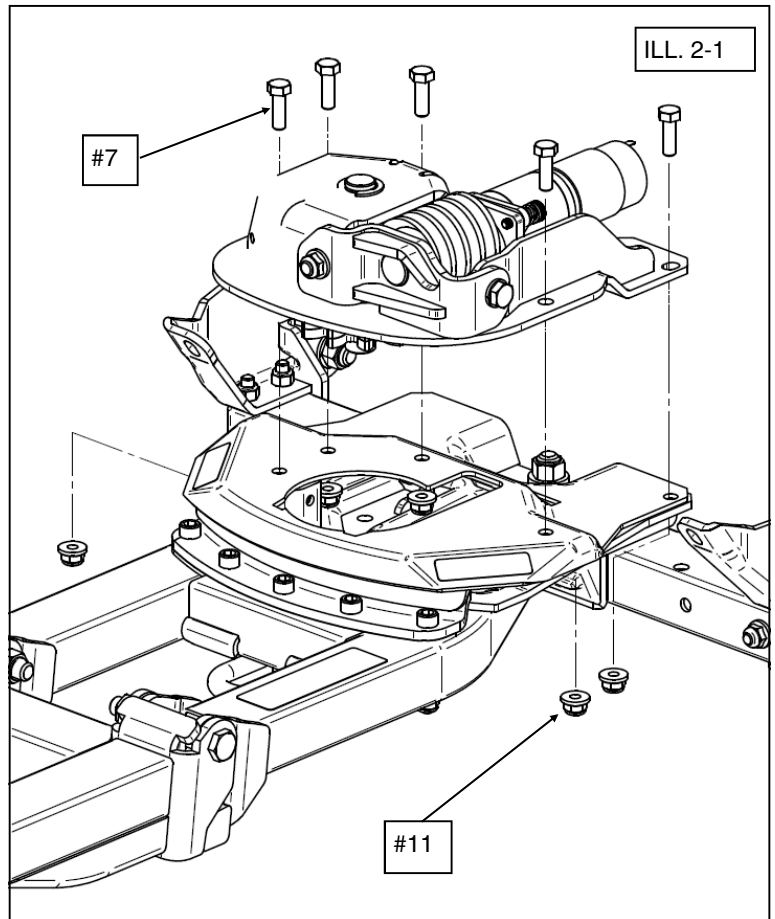


POWER ANGLE INSTALLATION ONTO PUSH FRAME ASSEMBLY:

1. Position the power angle motor frame assembly onto the push frame as shown. The hole (see illustration 2.2) in the push frame pivot assembly serves as bottom alignment guide for the gear assembly. Insert the five bolts, item #7, thru the power angle frame holes and push frame holes. Fasten the five flanged M8 nylon nuts, item # 11, onto bolts. Tighten to specification. (See illustration 2-1).

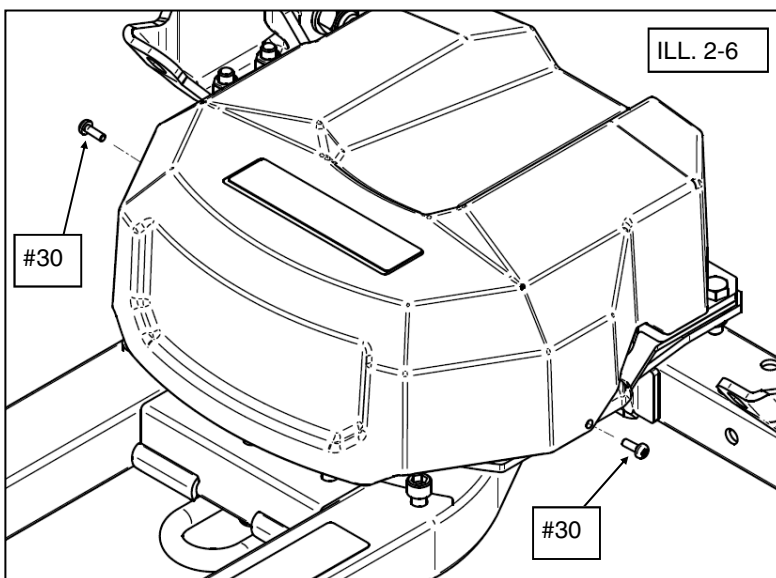
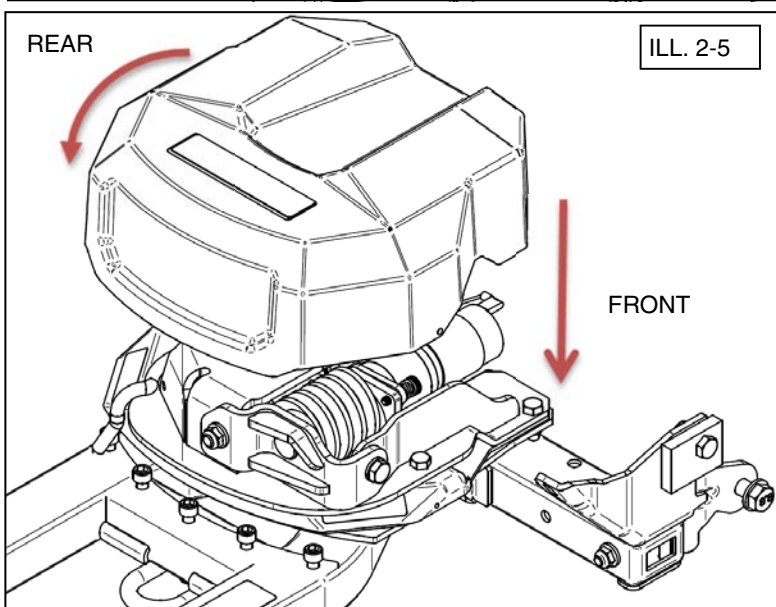
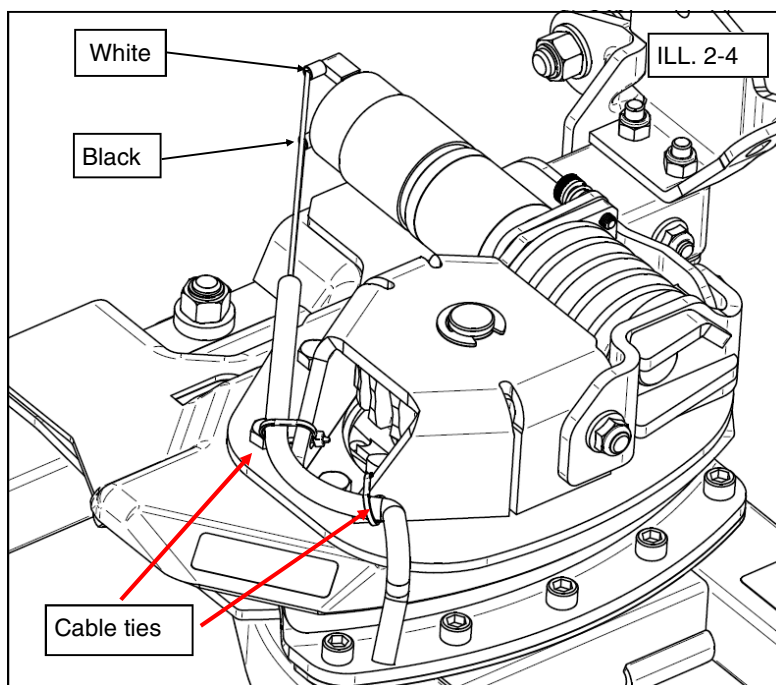


2. Note, for the hard-to-reach nuts, use a 13mm wrench to hold the nuts while tightening. (See illustration 2-3).



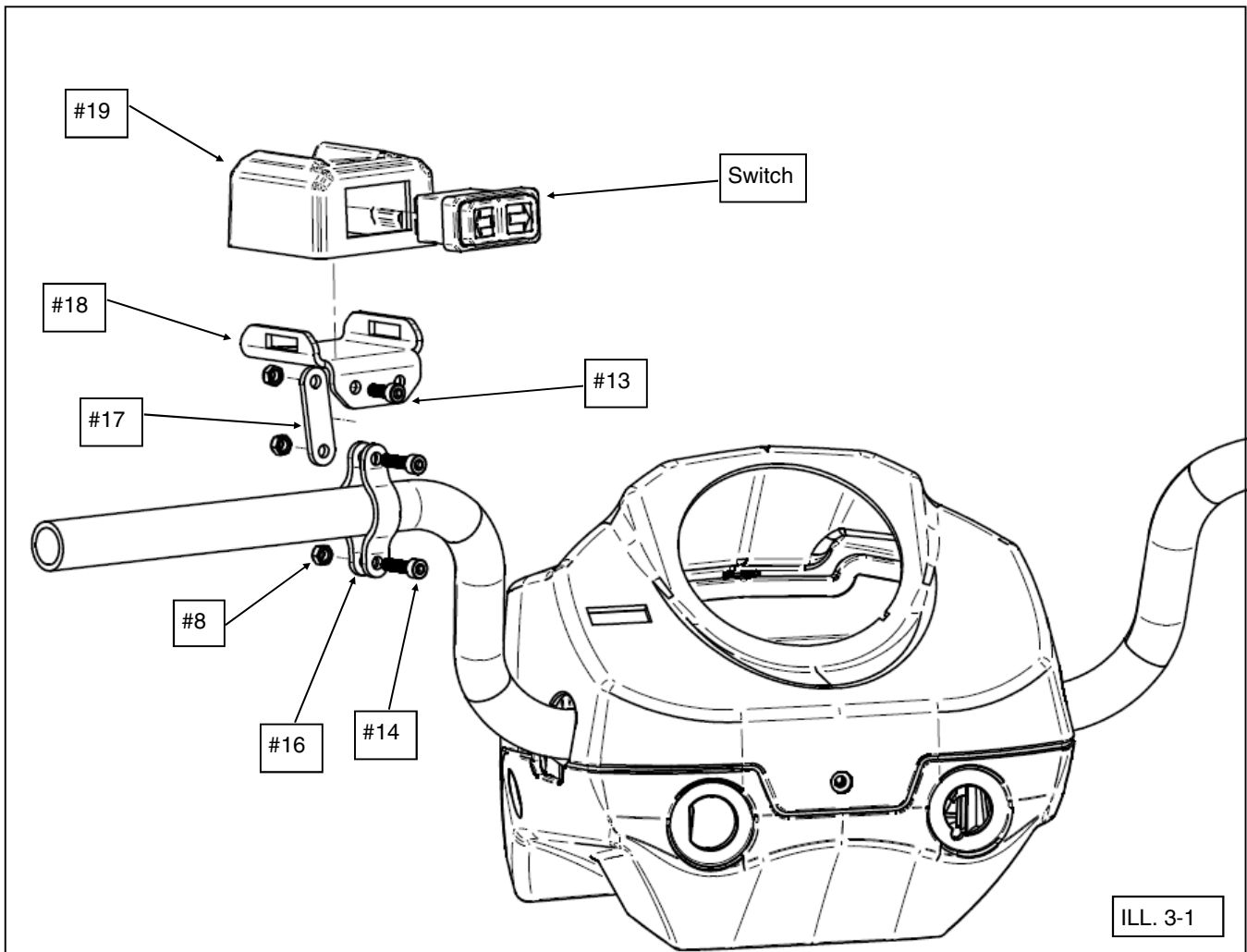
POWER ANGLE INSTALLATION ONTO PUSH FRAME ASSEMBLY (continued):

3. Connect the wiring (item #21) to the motor. Plug the white wire and black wire to the motor connectors as shown. Use the holes found on the left side of the gear housing to safely route the wiring using the included cable ties. (See illustration 2-4).
4. Then connect the wire harness (item #23) to the vehicle battery or power terminal block. The fused ring terminal wire lead connects to 12 VDC positive connection. The black ring terminal wire connects to the vehicle ground connection or negative battery terminal. **Note, see the wiring diagram and switch installations on following pages.**
5. Install the new plastic cap (item #25) over the angling kit as shown. Be careful not to damage the wiring during installation. Begin by hooking the front of the cap to the front of the unit, then tilt the rear down until it clips. (See illustration 2-5).
6. Once cap is installed, secure using self-tapping screws (item #30) as shown. Tighten the screws until snug. (See illustration 2-6). **Note, older gen plow frames may not have pre-drilled holes for self-tapping screws. Use the plastic cap as pattern to mark hole location and drill using 1/8" drill bit (3.2mm).**



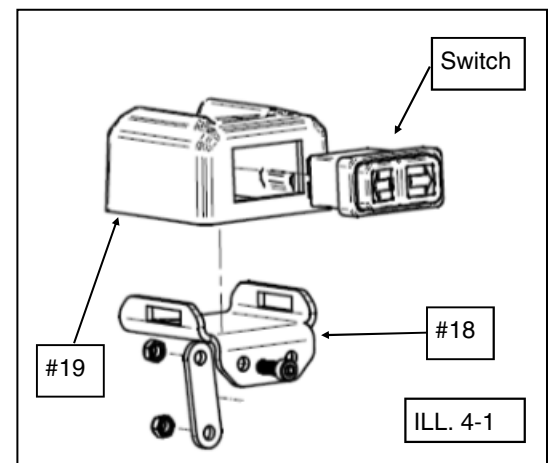
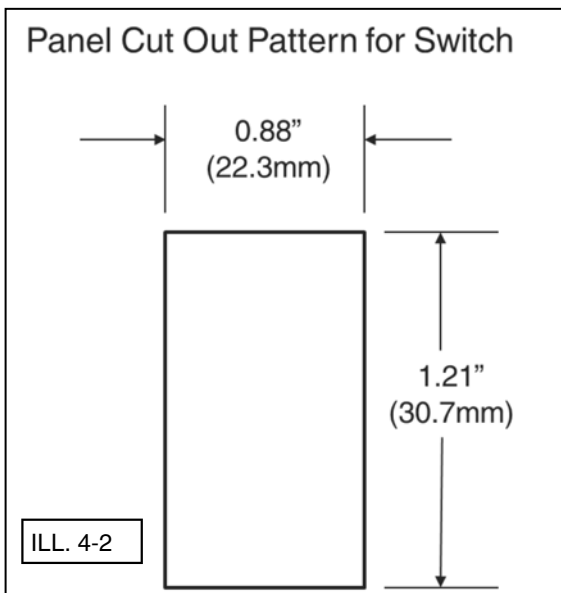
SWITCH INSTALLATION ONTO ATV VEHICLE:

1. Install the bar clamps (item #16), straight section bracket (item #17) and switch bracket (item #18) onto the handlebar using screws (items #13 & #14) and nuts (item #8) as shown below. (See illustration 3-1).
2. Route the wiring and connected switch thru the plastic cap (item #19), then continue routing it along the handlebar using included cable ties. **Note, make sure to route wires where it will not make contact with hot engine surfaces or will be pinched by body components or make contact with moving parts.**
3. Verify the orientation of the angling kit switch by operating the motor using the switch. This will determine the orientation of the switch in the housing. Using the left arrow, the blade should be rotating counterclockwise (the left side of the plow rotating toward the vehicle). Be careful of your surroundings when operating the plow angling kit.
4. Install the switch inside the plastic cover (item #19) in the correct orientation.
5. Clip the plastic cover to the switch bracket (item #18). **Note, if the angling kit is not turning the correct way, the switch will need to be rotated 180 degrees in the housing. Using the left arrow, the blade should be rotating counterclockwise to the left (the left side of the blade rotating toward ATV).**

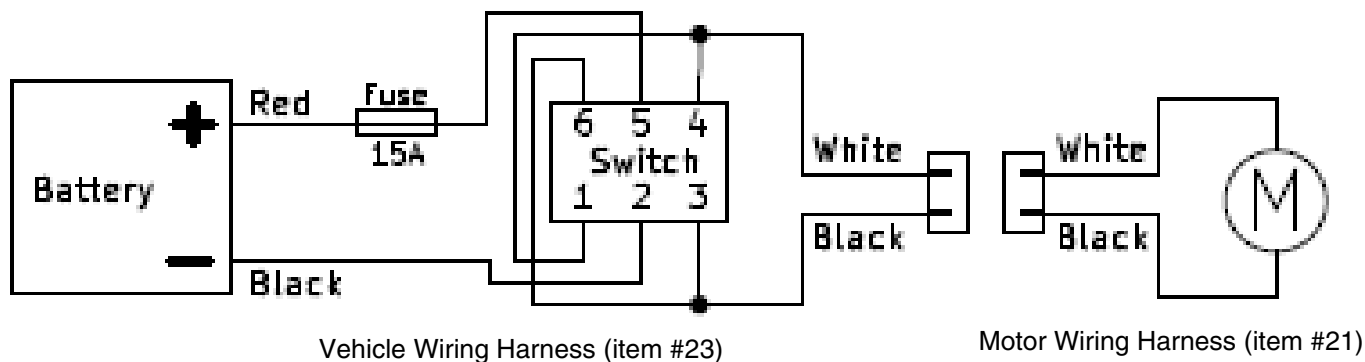


SWITCH INSTALLATION ONTO UTV VEHICLE:

1. To dash mount switch onto UTV, the switch bracket will need to be disassembled from factory ATV setup. Remove the switch from the switch bracket (item #18) and plastic switch cap (item #19) as shown below. For UTV installations, the ATV switch cover and bracket assemblies will not be needed. Save the wiring for next steps. (See illustration 4-1).
2. Prepare location for dash panel mount. Using the panel hole cut out pattern below, mark or scribe the rectangle pattern into the dash. Using plastic cutting tool such as Dremel or drill bit, remove the material for the cut out. (See illustration 4-2 for cut out pattern dimensions. **Note illustration 4-2 is not to scale, please confirm measurements with ruler.**).
3. Route the wiring and connected switch thru the dash cut out, then continue routing it along the body or frame using included cable ties. **Note, make sure to route wires where it will not make contact with hot engine surfaces or will be pinched by body components or make contact with moving parts.**
4. Verify the orientation of the angling kit switch by operating the motor using the switch. This will determine the orientation of the switch in the housing. Using the left arrow, the blade should be rotating counterclockwise (the left side of the plow rotating toward the vehicle). Be careful of your surroundings when operating the plow angling kit.
5. Clip the switch into the dash hole cut-out. (See example images below). **Note, if the angling kit is not turning the correct way, the switch will need to be rotated 180 degrees in the housing. Using the left arrow, the blade should be rotating counterclockwise to the left (the left side of the blade rotating toward UTV).**

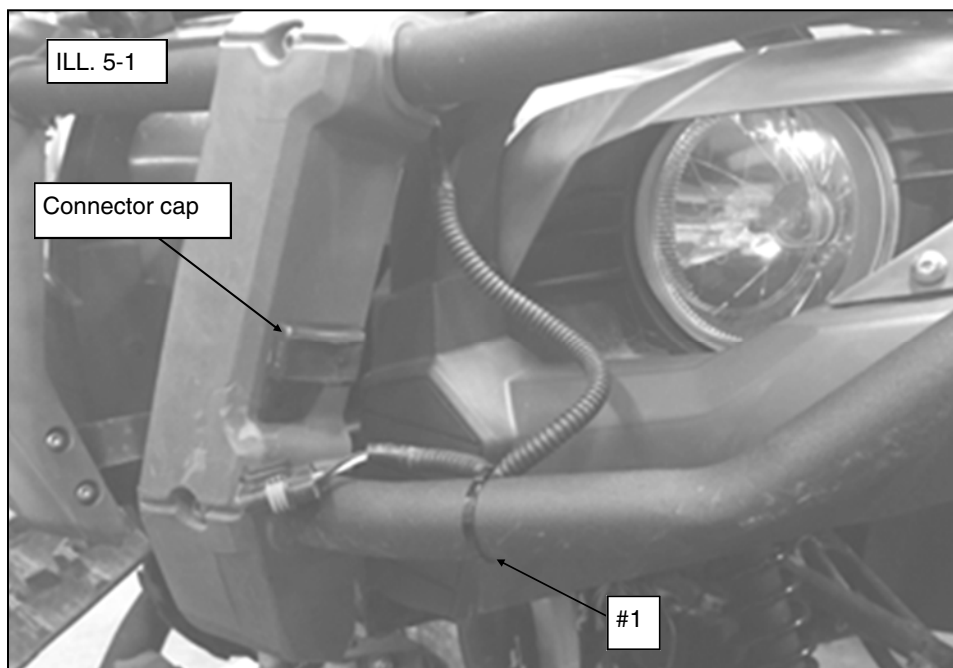


Wiring Diagram:



WIRE HARNESS ROUTING ON VEHICLE:

1. The vehicle wire harness (item #23) can be routed to the front grill area and secured using provided cable ties (item #1) as shown. To allow for plow raising and lowering movements, make sure to leave enough slack wire length from connector to cable tie. (See illustration 5-1).
2. The vehicle wire harness (item #23) includes a cover cap for the connector. The cap can be attached to the vehicle using provided cable ties (item #1) or badge trim adhesive (not included). When the plow is not attached to vehicle, the wire harness can be plugged into the cover cap as shown. (See illustration 5-2).



USAGE INSTRUCTIONS:

1. Use the angling kit only when the plow is up, with no contact on the ground or against any obstacle.
2. Once the plow is not turning anymore (due to an obstacle or being locked in the furthest angle position on either side), release the switch.
3. Do not keep operating the angling kit when the plow is locked.
4. If there is ice build-up on gear system preventing power angle pivot operation, let plow system thaw in warm environment for 30 minutes.
5. Operate the power angle system per the duty cycle listed below.

DUTY CYCLE:

- Run Time: 10 seconds free or 2 seconds locked
- Cool Time: 45 seconds
- Do not use over 65°F (18°F) or under -20°F (-28°C)

TROUBLESHOOTING:

- If the plow is not turning:
 - ◇ Check the fuse (located near positive terminal connection) for the Power Angle wiring harness
 - ◇ Check for dust or debris (ice, gravel, etc.) in the gears (located under plastic cap)
 - ◇ Check for any damage to the gear sets or plow push frame (related to hard impacts)
 - ◇ Check the connectors on the motor for a loose connection
 - ◇ Check the wiring for any damage
 - ◇ Check the battery voltage (continuous use with the vehicle not running will drain the battery)

MAINTENANCE:

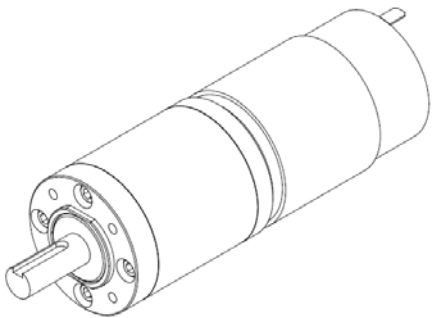
- Lightly grease the worm gears annually
- To remove dust or debris build-up on gears, use water to loosen material, then blow dry with pressurized clean air

SPARE KITS						
Item	Description	Motor kit P/N 33-0111	Wiring kit P/N 33-0112	Gear kit P/N 33-0115	Hardware kit P/N 33-0117	Plastic Cap kit P/N 33-0120
1	Cable Tie, 141mm long		13x			
2	Carriage Bolt, Zinc Plated, M10-1.5 x 25mm				1x	
3	Circlip, Zinc Plated			1x		
4	Flat Socket Head Cap Screw, Zinc Plated, M4-0.7 x 10mm				4x	
5	Set Screw, Zinc Plated, M6-1.0 x 12mm			1x		
6	Hex Bolt, Zinc Plated, M10-1.5 x 25mm				1x	
7	Hex Bolt, Zinc Plated, M8-1.25 x 25mm				5x	
8	Hex Nylon Nut, Zinc Plated, M5-0.8		3x			
9	Lock Washer, Zinc Plated, M10				1x	
10	Nylon Flange Nut, Zinc Plated, M10-1.5				1x	
11	Nylon Flange Nut, Zinc Plated, M8-1.25				5x	
12	Shoulder Screw, Zinc Plated, Dia. 8mm x 14mm, M6-1.0				2x	
13	Socket Head Cap Screw, Zinc Plated, M5-0.8 x 14mm		1x			
14	Socket Head Cap Screw, Zinc Plated, M5-0.8 x 20mm		2x			
15	Gear Assembly			1x		
16	Handlebar Clamp		2x			
17	Straight Section Bracket		1x			
18	Switch Bracket		1x			
19	Plastic Switch Cap		1x			
21	Wiring Assembly		1x			
23	ATV Wiring Harness		1x			
24	Worm			1x		
25	Plastic Cap					1x
26	Decal					1x
27	Spring				2x	
28	Motor Mounting Plate				1x	
29	Electric Motor	1x				
30	Self-Tapping Screw, Zinc Plated, M4-0.7 x 12mm LG					2x

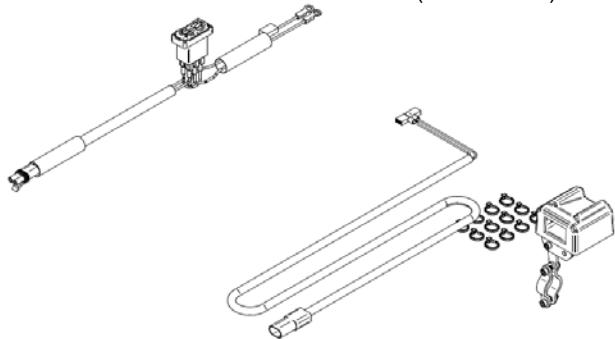
SPARE KITS:

See the table on page 12 for a full description.

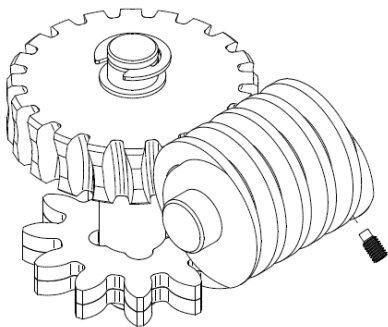
Motor kit (PN 33-0111)



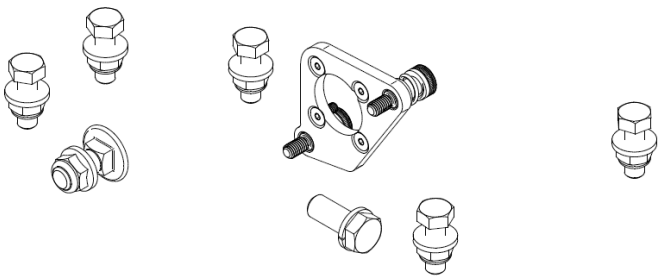
Wiring kit
(PN 33-0112)



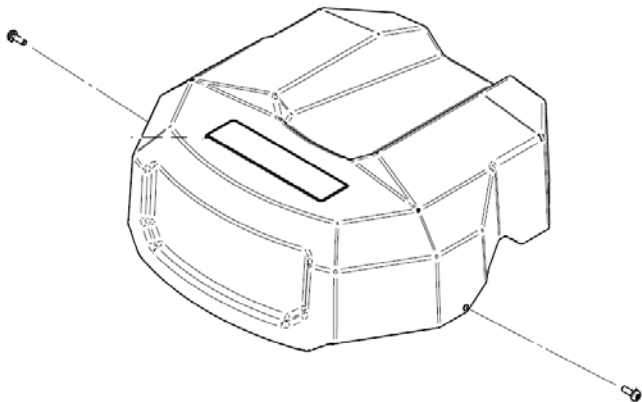
Gear kit (PN 33-0115)



Hardware kit
(PN 33-0117)



Plastic cap kit
(PN 33-0120)





Two Year Limited Warranty

For the period of two (2) years from the purchase date, Kolpin will replace for the original purchaser, free of charge, any part or parts found upon examination by Kolpin to be defective in material, workmanship, or both.

All transportation costs incurred submitting product to Kolpin for warranty consideration must be borne by the purchaser. If Kolpin determines that the product must be returned to the factory for credit, please call 1-877-956-5746 for a Return Merchandise Authorization (RMA) number and shipping instructions.

This warranty does not apply to parts that have been damaged by accident, alteration, abuse, improper maintenance, normal wear, or other causes beyond the manufacturer's control. In order to protect you and your ATV, certain parts of the plow system and/or hardware are designed to fail when the equipment is over-stressed. Parts that are lost due to loosening and improper maintenance are not covered under warranty. This warranty does not cover removal or reinstallation labor fees of the plow system and related components.

Peripheral products such as engines, electric motors, and actuators may carry an original manufacturer's warranty. Most hardware is general in nature and is easily obtained locally. Be sure to replace with minimum metric class 8.8 specification.

Kolpin Outdoors, Inc.

Telephone: (763)-478-5800

Toll Free: (877)-956-5746

Fax Number: (800)-245-7569

www.kolpin.com

Email: customerservice@kolpin.com



UTV CONQUEROR FRONT-CONNECT TRACKED VEHICLE PLOW EXTENSION

P/N 35-0350

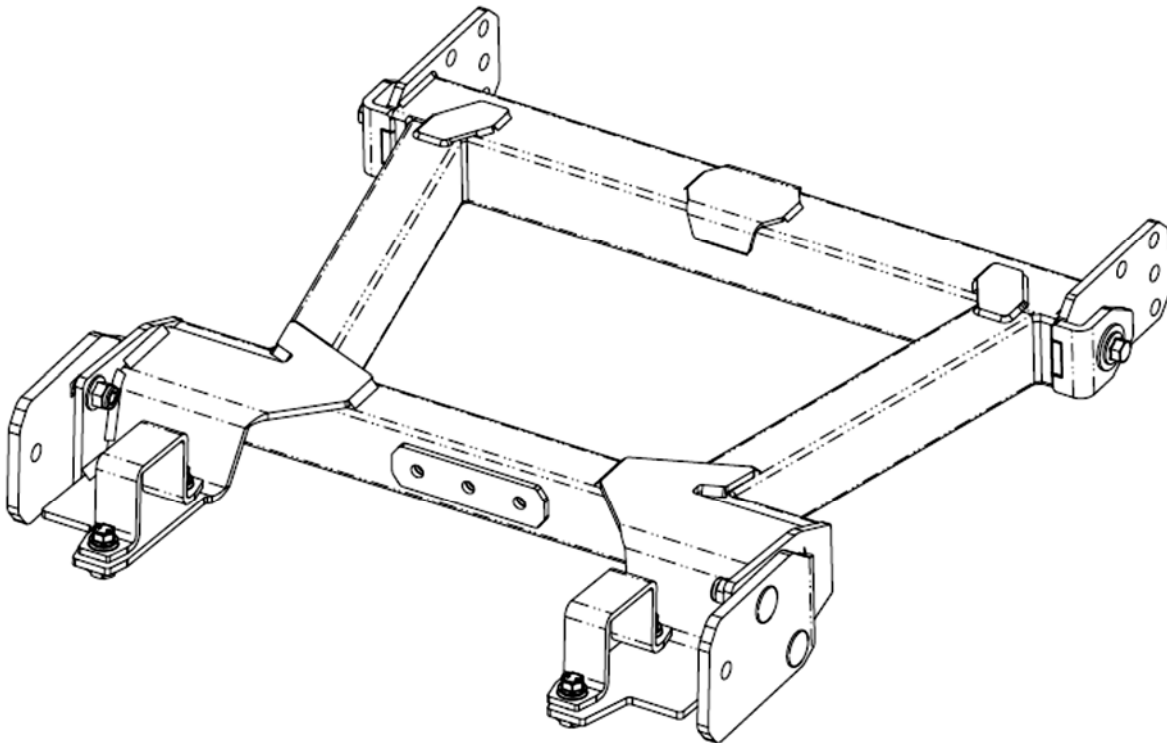
OWNER'S MANUAL

Application

UTV CONQUEROR FRONT-CONNECT PLOW FRAME NO. 35-0070

**ATTENTION DEALER: CUSTOMER MUST RECEIVE A COPY OF THIS MANUAL
AT THE TIME OF SALE.**

Before you begin, please read these instructions and check to be sure all parts and tools are accounted for. These instructions will help you to become familiar with operation of the plow push frame. Instructions contain details required to install, service the contents of this kit, for adjustment and maintenance.



INTRO

Thank you for purchasing Kolpin engineered products. With proper installation, usage, care, and maintenance, your Kolpin product will last for years to come.

BEFORE YOU BEGIN

- Your Kolpin accessory is exclusively designed for your vehicle.
- Read and understand the entire installation manual, including all installation instructions, operating instructions, safety warnings and guidelines before installing or operating your accessory. Failure to comply may result in damage to the product and / or vehicle, and can lead to hazards up to and including death.
- Verify all parts and tools are accounted for. If parts are missing, do not return to the store. Call us for help, **Toll Free 1-877-956- 5746**
- Follow all steps correctly and in the sequence described.
- Keep these instructions for future reference or for informational requests.
- To facilitate installation, make sure that your vehicle is clean and free of debris.
- All directions referring to right and left are from the rider perspective when sitting on the machine.

ASSEMBLY TIME

Approximately 24 minutes

SAFETY INFORMATION

Please read and understand all Cautions, Notices, and Warnings in this manual before you begin. In order to protect you and your ATV / UTV, certain parts of the plow system and / or hardware are designed to fail when the equipment is over-stressed.

Follow these guidelines to ensure satisfactory operation:

- Read this manual and your ATV / UTV operators manual before use.
- Periodically check for wear and tightness of all fasteners. Replace or re-torque fasteners as necessary.
- Before first use, set plow in the furthest right or left angled position to check for interference with the vehicle.
- Operate with extreme caution on slopes and rough terrain. Be familiar with the area before you plow.
- Be aware of immovable objects that could be hidden in the area you are plowing.
- To avoid damage when pushing snow into a pile, reverse direction before raising the plow blade.
- Do not ram the plow blade into piles of snow.
- For best results, set the suspension preload of your ATV / UTV to the stiffest setting.
- To reduce steering effort and increase mobility, set the air pressure of your tires to the maximum pressure specification.
- The plow skids are adjustable. General skid setting is even with the plow wear bar bottom edge, higher settings reduce the chance of rocks and gravel from being collected.
- To increase traction during plow operation, operators can try: Securing weight to the ATV / UTV for additional tire downforce, reducing tire air pressure, or installing tire chains.



WARNING



TO AVOID SERIOUS INJURY OR DEATH:

1. DO NOT EXCEED 5 MPH (8 KMH) WITH BLADE INSTALLED
2. OPERATE WITH EXTREME CAUTION ON SLOPES, STEEP GRADES, AND ROUGH TERRAIN
3. ALLOW NO RIDERS ON BLADE OR ATV WHILE MOVING OR STATIONARY
4. KEEP BYSTANDERS AWAY FROM THE BLADE OR ATV WHILE MOVING OR STATIONARY
5. WHEN PUSHING HEAVY MATERIAL, DIRECTION CONTROL MAY BECOME DIFFICULT
6. BEFORE ADJUSTING BLADE: STOP ATV ENGINE; SET AND LOCK BRAKES; RAISE AND LOCK BLADE
7. LOWER BLADE TO DOWN POSITION WHEN BLADE AND ATV ARE NOT IN USE
8. READ BLADE INSTRUCTION SHEETS AND ATV OWNER'S MANUAL

REQUIRED SOLD SEPARATELY

Only parts for installation of the Plow Push Frame Kit are included. For complete snow plow system installation, additional items are required such as a plow blade, plow frame, vehicle plow mount, winch, and winch mount. See www.Kolpin.com for products to complete your plow system.

TOOLS REQUIRED

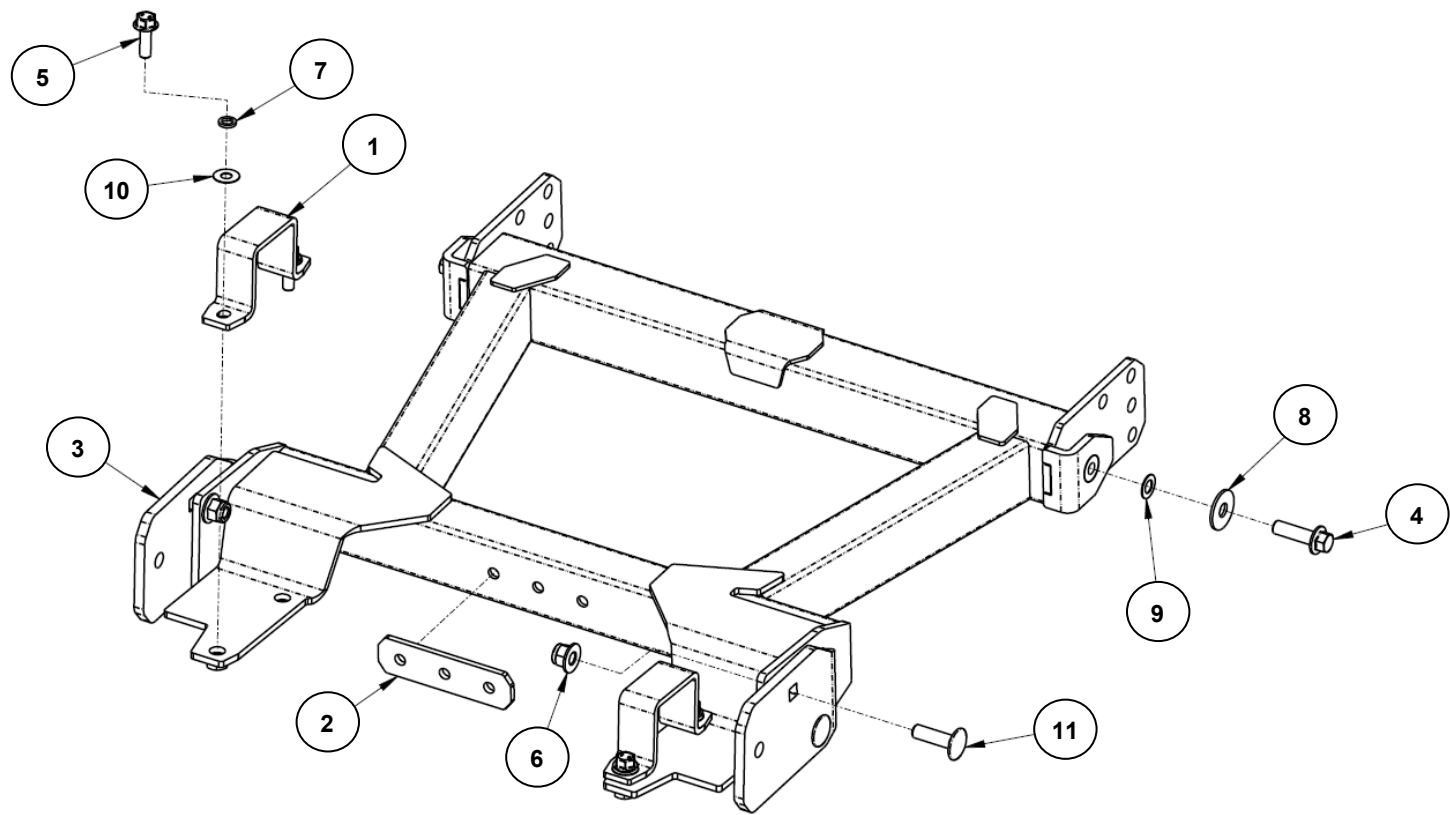
- Safety Glasses
- Socket Set, Metric
- Torque Wrench
- Wrench Set, Metric

IMPORTANT

The use of a Kolpin winch with the combination of Kolpin auto-stop and synthetic winch rope are recommended for use with this plow system to prevent premature failure of the winch cable. The winch should be installed on the unit prior to installing this kit.

KIT CONTENTS

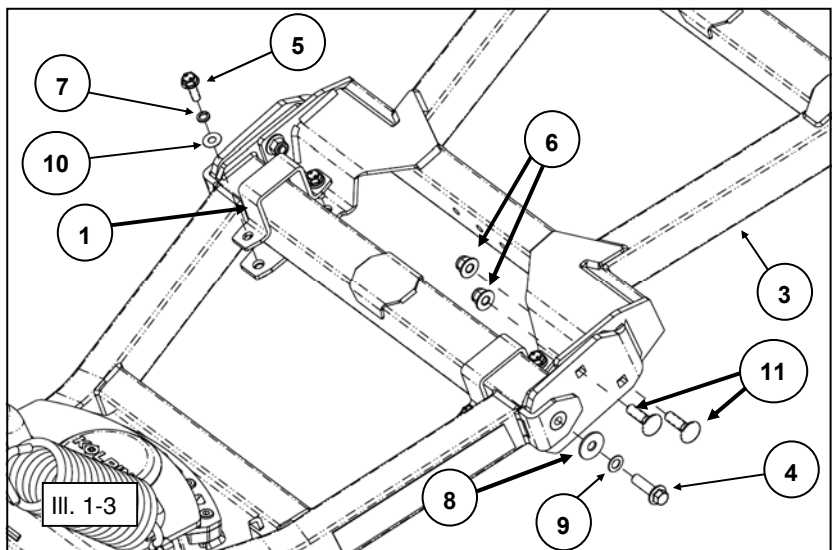
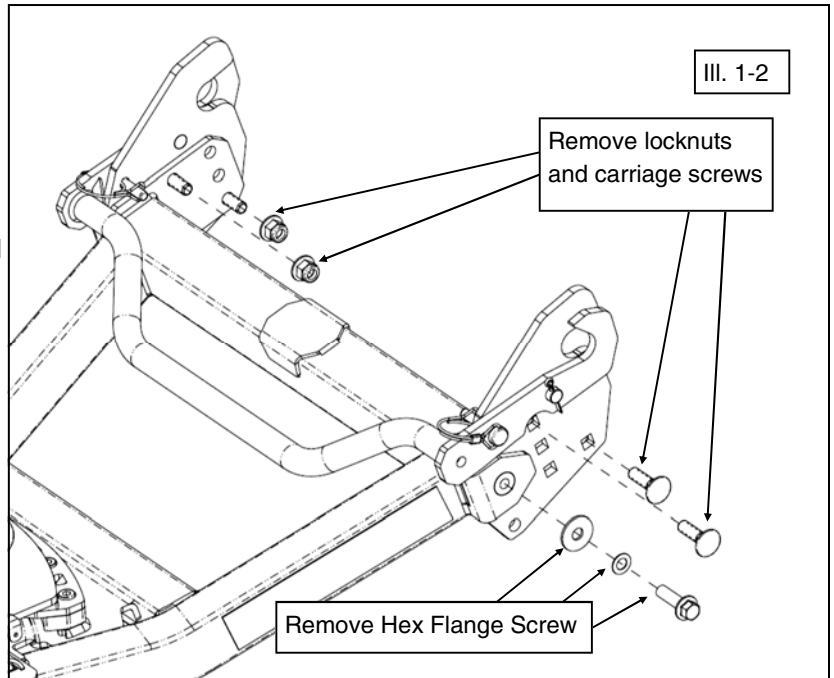
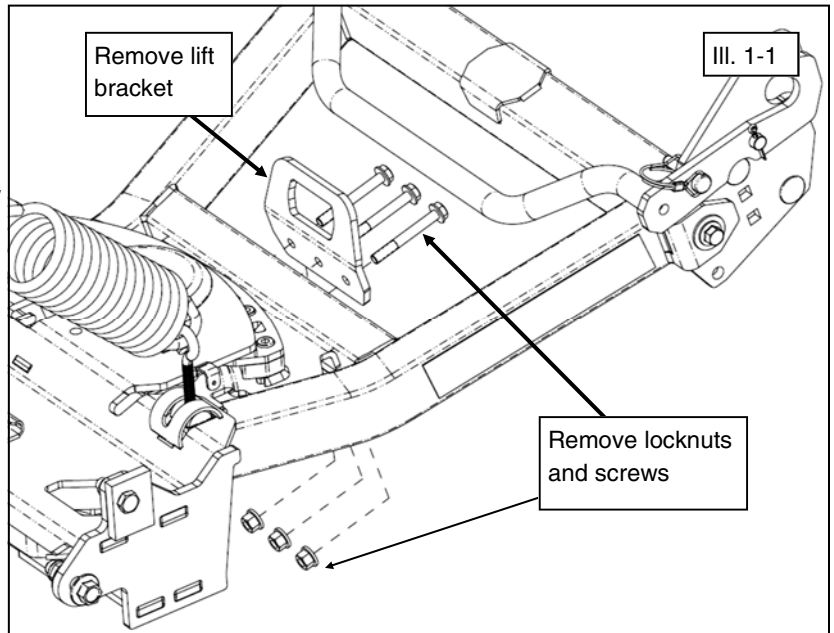
Item	Qty	Part Description	Part Number
1	2	Tube Clamp Bracket, Painted	-
2	1	Lift Point Tube Support, Painted	-
3	1	Plow Frame Extension	-
4	2	Hex Flange Screw, Zinc Plated, M10-1.5 x 35mm LG	-
5	4	Hex Flange Screw, Zinc Plated, M8-1.25 x 25mm LG	-
6	4	Hex Flange Locknut, Zinc Plated, M10-1.5	-
7	4	Lock Washer, Zinc Plated, M8	-
8	2	Flat Washer, Zinc Plated, M10	-
9	2	Lock Washer, Zinc Plated, M10	-
10	4	Flat Washer, Zinc Plated, M8	-
11	4	Carriage Screw, Zinc Plated, M10-1.5 x 35mm LG	-
12	1	Instruction Manual (not shown)	-



INSTALLATION INSTRUCTIONS

EXTENSION FRAME ASSEMBLY

1. Remove the lift point bracket (bracket and three screws & locknuts from the 35-0070 Plow Frame as shown. Keep the as these will be reinstalled onto the 35-0350 extension frame (item #3). (See illustration 1-1).
2. Remove the Connection Latch assembly (latch tube, two side plates, two M10 hex flange screws & washers, four M10 carriage screws & locknuts) from the 35-0070 Plow Frame as shown. Keep the items as these will be reinstalled onto the rear of 35-0350 extension frame (item #3). (See illustration 1-2). **Note, keep the cotter pin and safety wire lock pins installed with the Connection Latch assembly.**
3. Install Extension Frame (item #3) onto the rear of the 35-0070 Plow Frame as shown. Install the M10 carriage screws (item #11) through the Extension Frame and Plow Frame holes and fasten using M10 locknuts (item #6). Install the M10 hex flange screws (item #4) through M10 lock washer (item #9) and through M10 flat washer (item #8) and through the Plow Frame. (See illustration 1-3).
4. Install the tube frame clamp brackets (item #1) over the Plow Frame as shown. Fasten using M8 hex flange screws (item #5) through M8 lock washer (item #7) through M8 flat washer (item #10) and into the Extension Frame threaded tab. (See illustration 1-3).
5. Tighten all hardware to specifications.



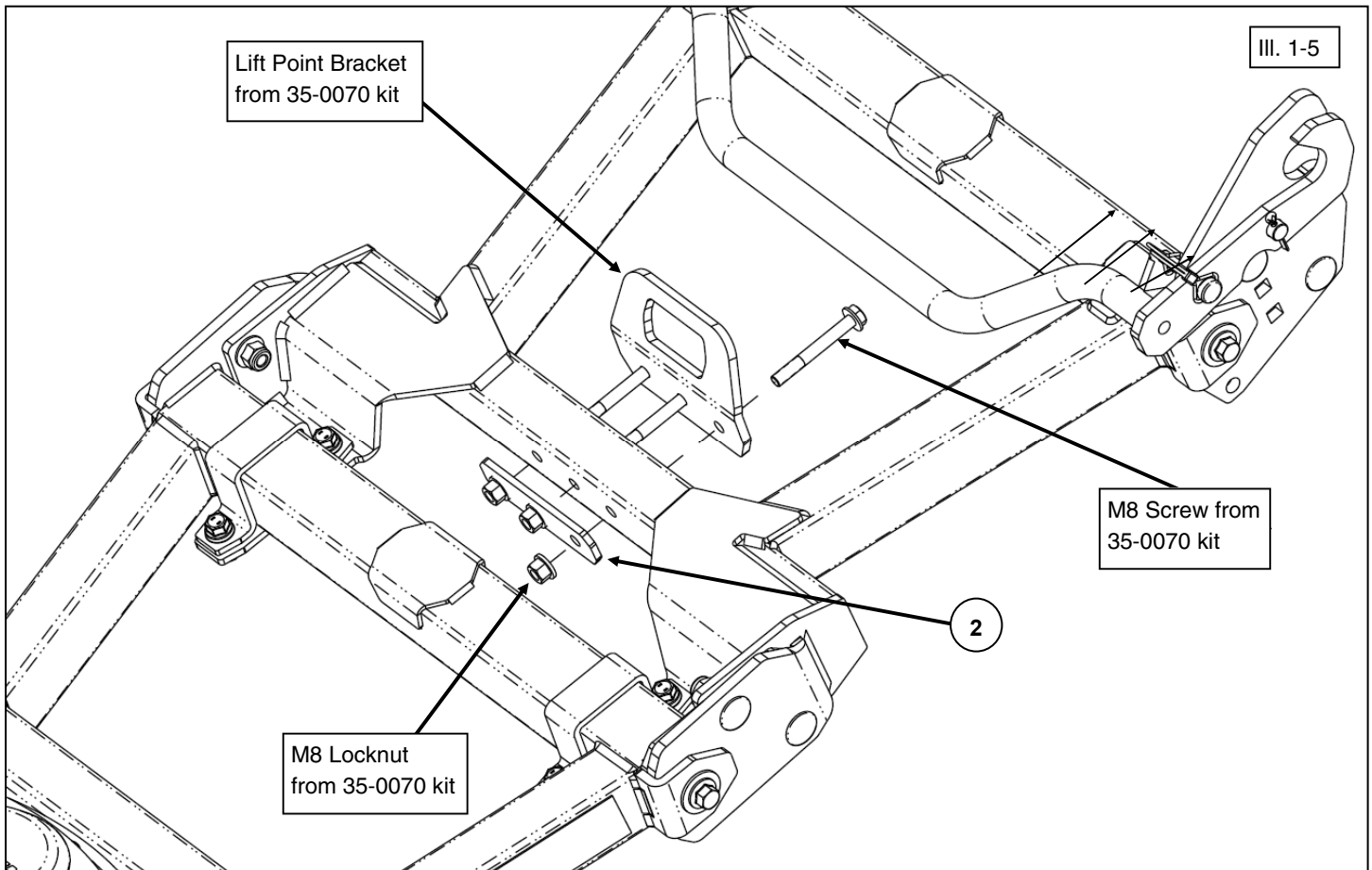
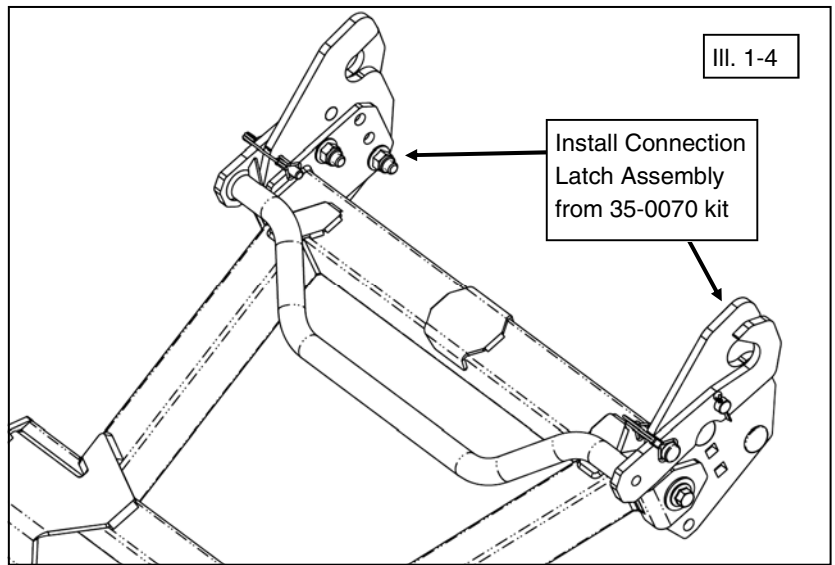
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10MM FASTENER TORQUE: 34 ft-lbs. (46 N-m)

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8MM FASTENER TORQUE: 17 ft-lbs. (23 N-m)

INSTALLATION INSTRUCTIONS

EXTENSION FRAME ASSEMBLY (continued)

6. Install the Connection Latch Assembly onto the rear of the Extension Frame (item #3) as shown. Install using the M10 hardware removed in step 2 and tighten to M10 specifications. (See illustration 1-4). **Note, refer to 35-0070 Plow Frame install instructions for additional assistance.**
7. Install the lift point bracket onto the Extension Frame (item #3) as shown using the M8 hardware. Install the Tube Support Plate (item #2) under the locknuts. Tighten to M8 specifications. (See illustration 1-5). **Note, the lift point bracket can be installed on the rear of the extension tube as shown or on the front of the extension tube (not shown).**





Two Year Limited Warranty

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Email: customerservice@kolpin.com



UTV CONQUEROR FRONT-CONNECT PUSH FRAME KIT

P/N 35-0070

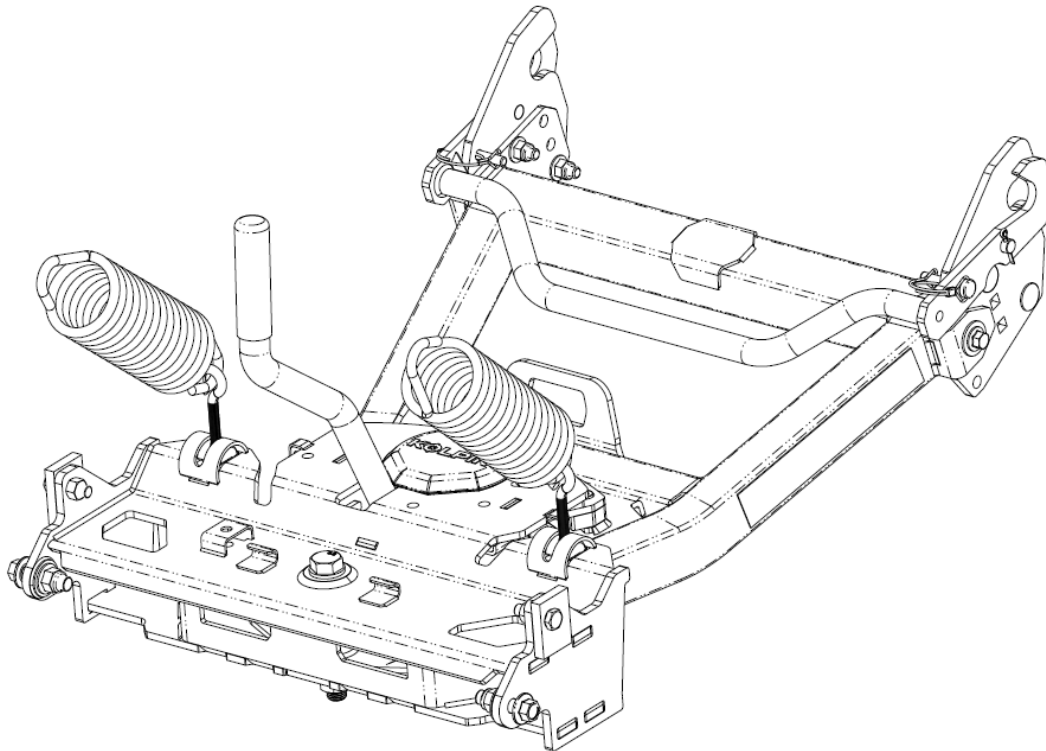
OWNER'S MANUAL

Application

CONQUEROR FRONT-CONNECT PLOW MOUNT NO. 35-XXXX

**ATTENTION DEALER: CUSTOMER MUST RECEIVE A COPY OF THIS MANUAL
AT THE TIME OF SALE.**

Before you begin, please read these instructions and check to be sure all parts and tools are accounted for. These instructions will help you to become familiar with operation of the plow push frame. Instructions contain details required to install, service the contents of this kit, for adjustment and maintenance.



INTRO

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BEFORE YOU BEGIN

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- Verify all parts and tools are accounted for. If parts are missing, do not return to the store. Call us for help, **Toll Free 1-877-956- 5746**
- Follow all steps correctly and in the sequence described.
- Keep these instructions for future reference or for informational requests.
- To facilitate installation, make sure that your vehicle is clean and free of debris.
- All directions referring to right and left are from the rider perspective when sitting on the machine.

ASSEMBLY TIME

Approximately 24 minutes

SAFETY INFORMATION

Please read and understand all Cautions, Notices, and Warnings in this manual before you begin. In order to protect you and your ATV / UTV, certain parts of the plow system and / or hardware are designed to fail when the equipment is over-stressed.

Follow these guidelines to ensure satisfactory operation:

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- Operate with extreme caution on slopes and rough terrain. Be familiar with the area before you plow.
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WARNING



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4. KEEP BYSTANDERS AWAY FROM THE BLADE OR ATV WHILE MOVING OR STATIONARY
5. WHEN PUSHING HEAVY MATERIAL, DIRECTION CONTROL MAY BECOME DIFFICULT
6. BEFORE ADJUSTING BLADE: STOP ATV ENGINE; SET AND LOCK BRAKES; RAISE AND LOCK BLADE
7. LOWER BLADE TO DOWN POSITION WHEN BLADE AND ATV ARE NOT IN USE
8. READ BLADE INSTRUCTION SHEETS AND ATV OWNER'S MANUAL

REQUIRED SOLD SEPARATELY

Only parts for installation of the Plow Push Frame Kit are included. For complete snow plow system installation, additional items are required such as a plow blade, vehicle plow mount, winch, and winch mount. See www.Kolpin.com for products to complete your plow system.

TOOLS REQUIRED

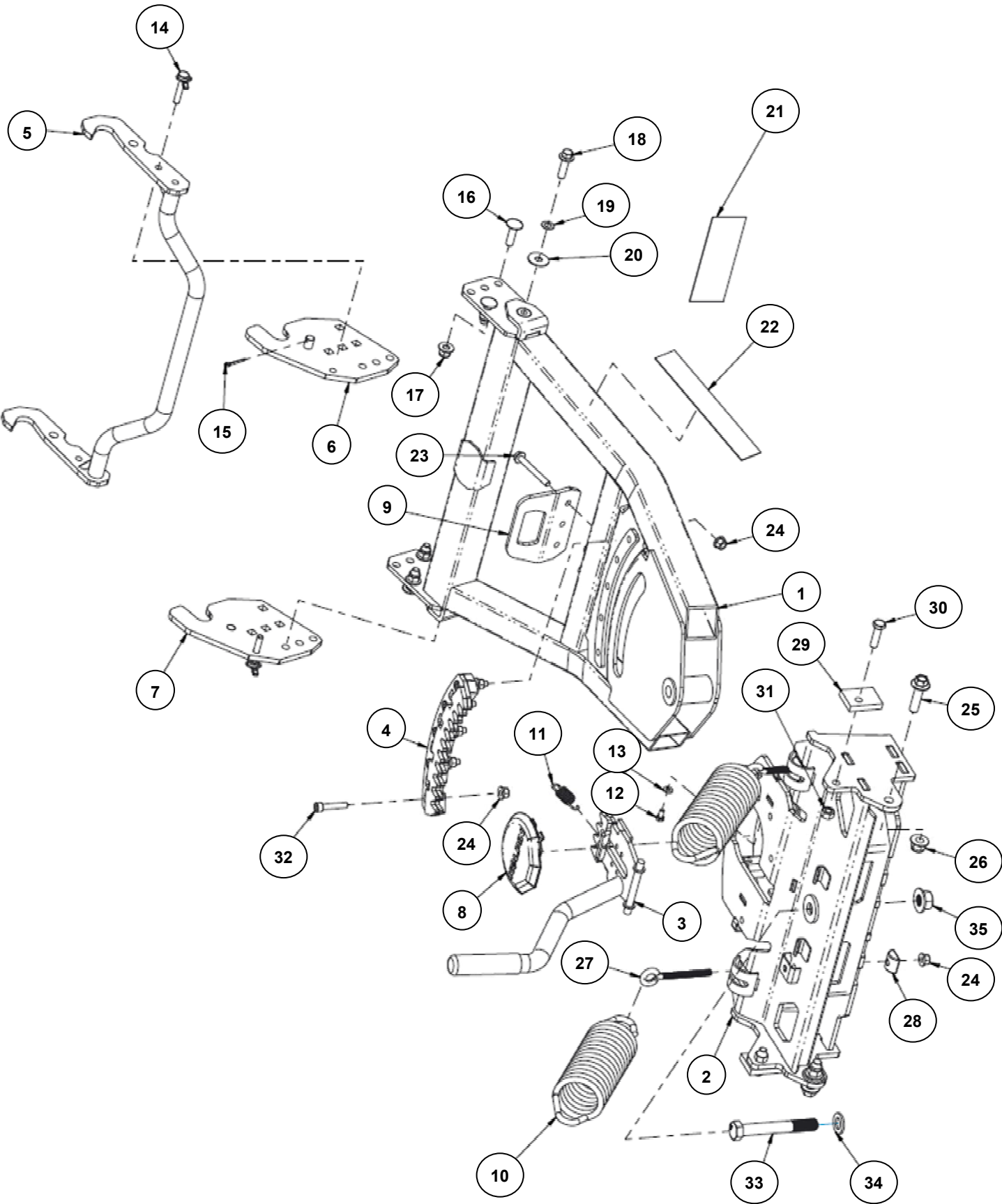
- Safety Glasses
- Socket Set, Metric
- Torque Wrench
- Wrench Set, Metric
- Pliers, Needle Nose
- Spring Puller or shoestring sized rope

IMPORTANT

The use of a Kolpin winch with the combination of Kolpin auto-stop and synthetic winch rope are recommended for use with this plow system to prevent premature failure of the winch cable. The winch should be installed on the unit prior to installing this kit.

Item	Qty	Part Description	Part Number
1	1	Push Frame Welded	-
2	1	Blade Pivot Frame	-
3	1	Pivot Lock Handle	35-0077
4	1	Pivot Lock Gear Plate	35-0078
5	1	Connection Latch Handle	35-0070-CP06
6	1	LH Connection Latch Side Bracket	35-0070-CP27
7	1	RH Connection Latch Side Bracket	35-0070-CP26
8	1	Plastic Pivot Cover Cap	35-0070-CP24
9	1	Lift Bracket	35-0075
10	2	Large Tension Spring, Blade Trip	35-0070-CP12
11	1	Small Tension Spring, Pivot Lock Handle	-
12	1	Hex Screw, Zinc Plated, M6-1.0 x 18mm LG	-
13	1	Lock Washer, Zinc Plated, M6	-
14	2	Lock Pin	35-0079
15	2	Cotter Pin	-
16	4	Carriage Screw, Zinc Plated, M10-1.5 x 35mm LG	-
17	4	Hex Flange Locknut, Zinc Plated, M10-1.5	-
18	2	Hex Flange Screw, Zinc Plated, M10-1.5 x 35mm LG	-
19	2	Lock Washer, Zinc Plated, M10	-
20	2	Flat Washer, Zinc Plated, M10	-
21	1	Kolpin Logo Decal	-
22	1	Conqueror Decal	-
23	3	Hex Flange Screw, Zinc Plated, M8-1.25 x 65mm LG	35-0075
24	10	Hex Flange Locknut, Zinc Plated, M8-1.25	-
25	2	Hex Flange Screw, Zinc Plated, M12-1.75 x 45mm LG	-
26	2	Hex Flange Locknut, Zinc Plated, M12-1.75	-
27	2	Eye Bolt, Zinc Plated, M8-1.25 x 115mm LG	PUR1216
28	2	Pivot Sleeve, Zinc Plated	34-0002
29	2	Blade Stopper Plate, Zinc Plated	-
30	2	Hex Screw, Zinc Plated, M10-1.5 x 35mm LG	-
31	2	Hex Locknut, Zinc Plated, M10-1.5	-
32	5	Socket Head Cap Screw, Zinc Plated, M8-1.25 x 40mm LG	-
33	1	Hex Flange Screw, M16-2.0 x 120mm LG	-
34	1	Flat Washer, Zinc Plated, M16	-
35	1	Hex Flange Locknut, Zinc Plated, M16-2.0	-
36	1	Instruction Manual (not shown)	-

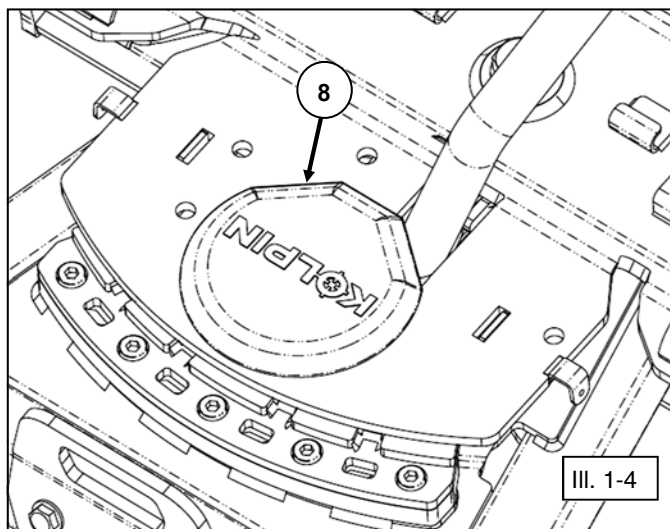
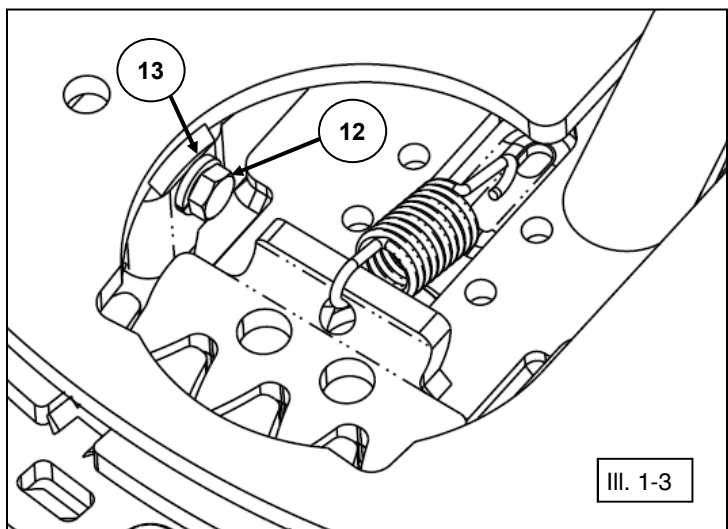
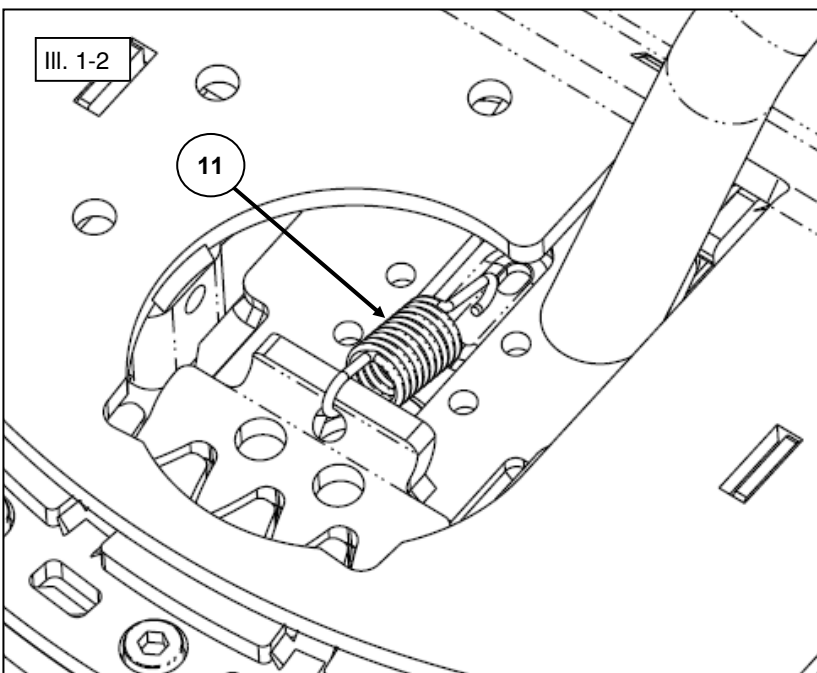
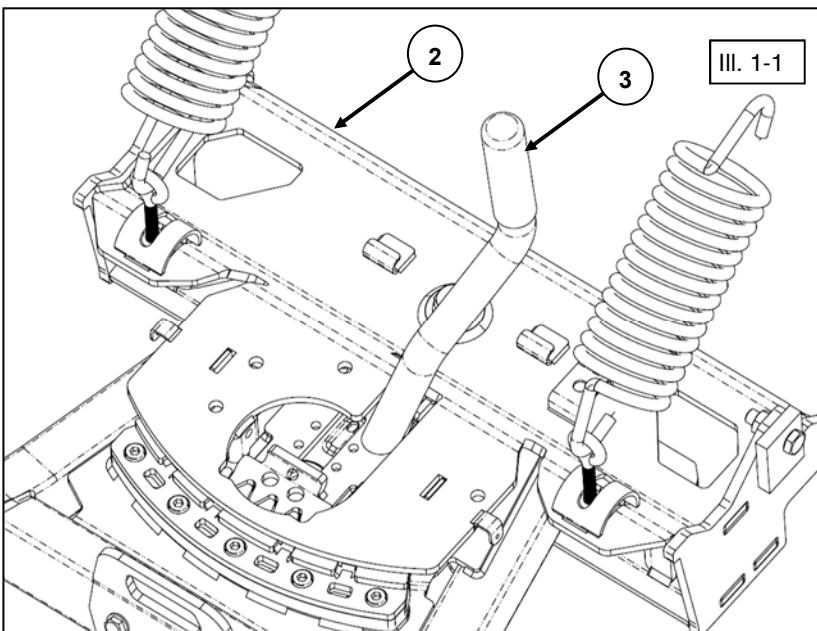
Kit Contents (continued):



INSTALLATION INSTRUCTIONS

MANUAL PIVOT ANGLE ASSEMBLY

1. Position the pivot lock handle (item #3) into the blade pivot frame (item #2). Lock the handle assembly into place as shown. (See illustration 1-1).
2. Attach the tension spring (item #11) into the holes in the lock handle assembly and pivot frame assembly as shown. Using a spring puller (or shoe string) to pull on the higher side allows for easy installation of spring. (See illustration 1-2). **Note, the shorter spring end hook fits into the frame first.**
3. Install M6 hex screw (item #12) and M6 lock washer (item #13) in the pivot frame side plate hole as shown. Tighten to specification. (See illustration 1-3).
4. Secure the plastic cover cap (item #8) into place as shown. (See illustration 1-4).

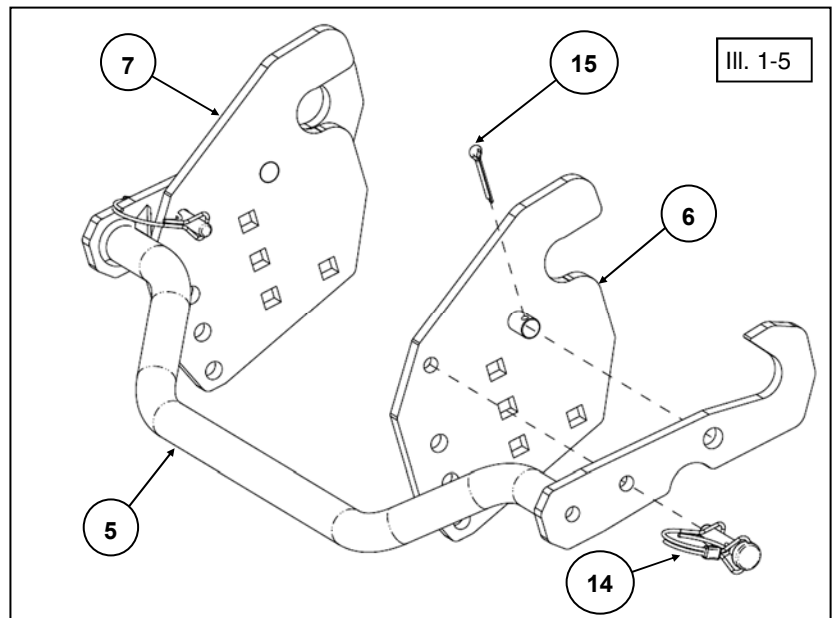


6MM FASTENER TORQUE:
7 ft-lbs. (9 N-m)

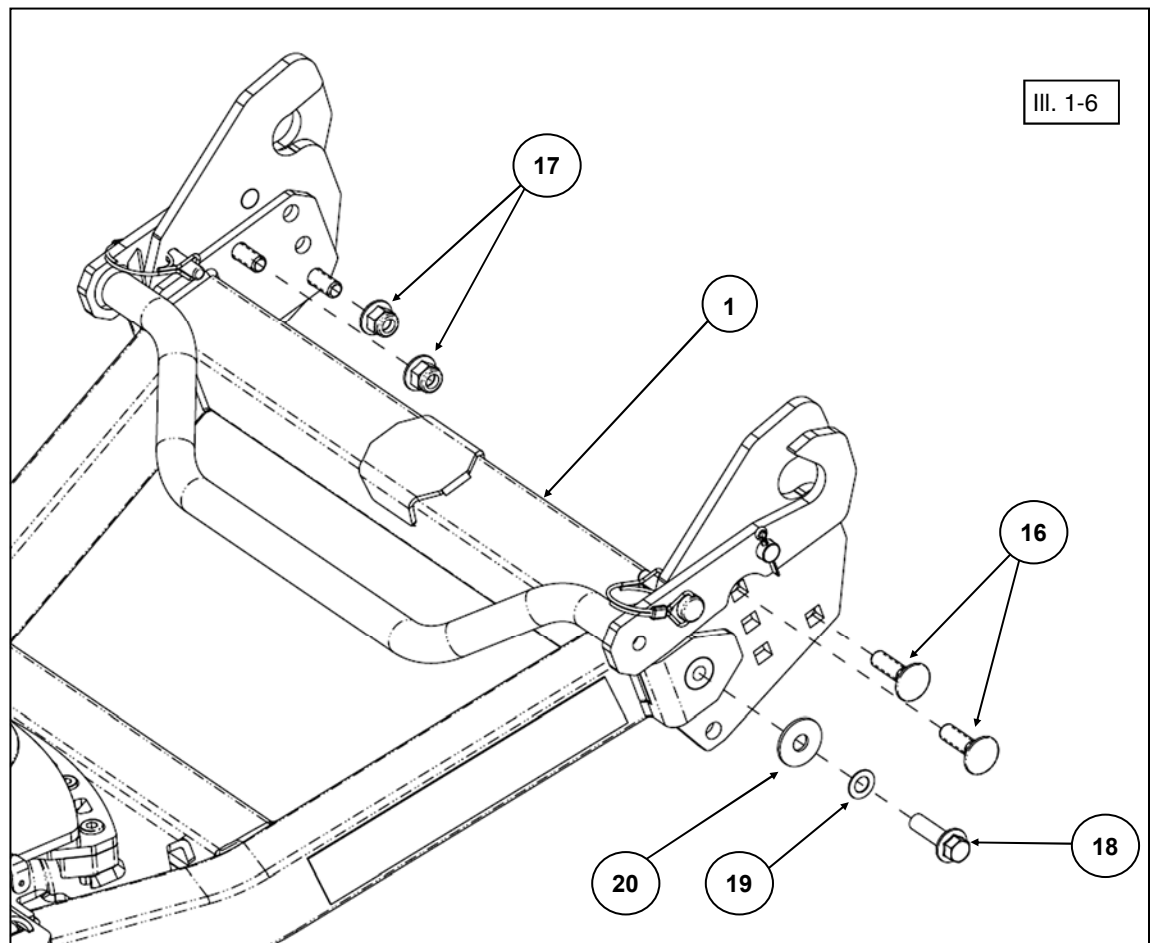
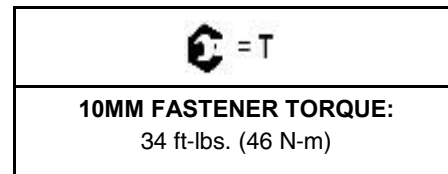
INSTALLATION INSTRUCTIONS

CONNECTION LATCH ASSEMBLY

5. Position the connection latch handle (item #5) onto the LH connection latch side bracket (item #6). Insert the cotter pin (item #15) thru the welded pin of side bracket as shown. Bend cotter pin into place. Insert the lock pin (item #14) thru the latch and side bracket. Repeat the same steps for RH side bracket (item #7). (See illustration 1-5).
6. Position the connection latch assembly onto the push frame (item #1) rear tabs as shown. Fasten the front of the side brackets using M10 hex flange screw (item #18) with M10 lock washer (item #19) and M10 flat washer (item #20). Fasten the rear two square holes of the side brackets using M10 carriage screws (item #16) with M10 locknuts (item #17). (See illustration 1-6). **Note, the connection latch assembly can be adjusted for higher ground clearance vehicles to keep plow blade level. See operation section of instruction guide.**
7. Tighten M10 hardware to specification.



III. 1-5



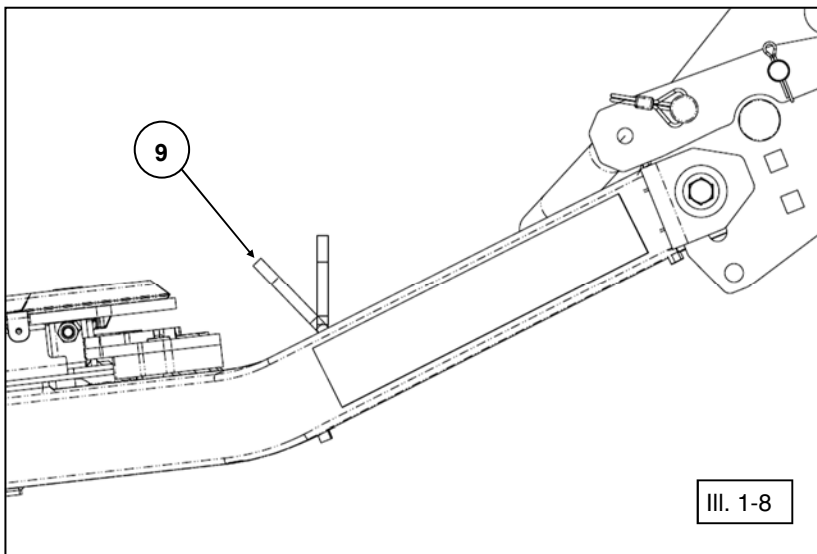
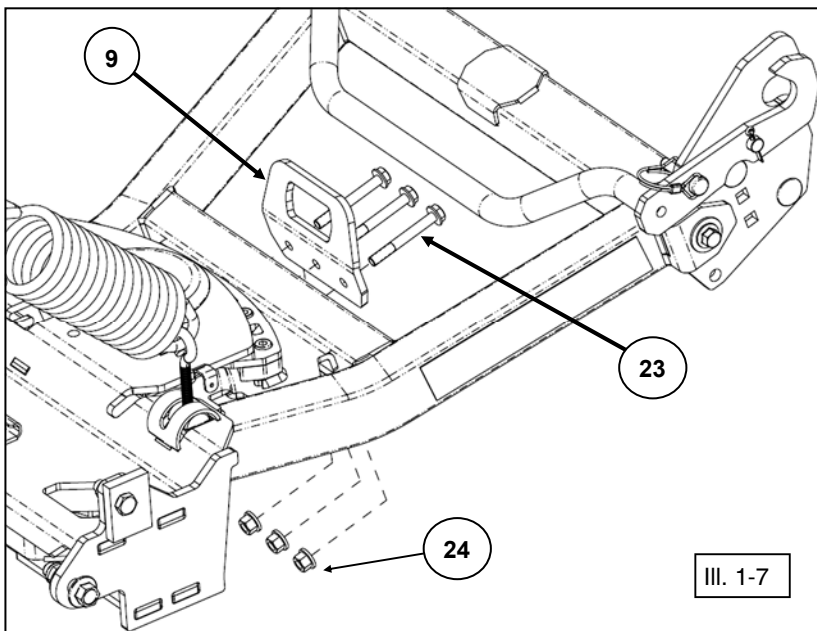
III. 1-6

INSTALLATION INSTRUCTIONS

LIFT BRACKET ASSEMBLY

8. Position the lift bracket (item #9) onto the push frame (item #1) as shown. Fasten using M8 screws (item #23) with M8 locknuts (item #24). (See illustration 1-7).
9. The lift bracket (item #9) can be installed with loop facing forward or rearward as shown. (See illustration 1-8). **Note, facing the lift bracket loop forward can be helpful for Polaris Ranger 1000 applications and provide some winch rope winch clearance with OEM upper catch bar of front bumper. Otherwise, it can provide more winch rope clearance to remove the Polaris Ranger 1000 OEM upper catch bar.**
10. Tighten M8 screws to specification.

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8MM FASTENER TORQUE: 17 ft-lbs. (23 N-m)



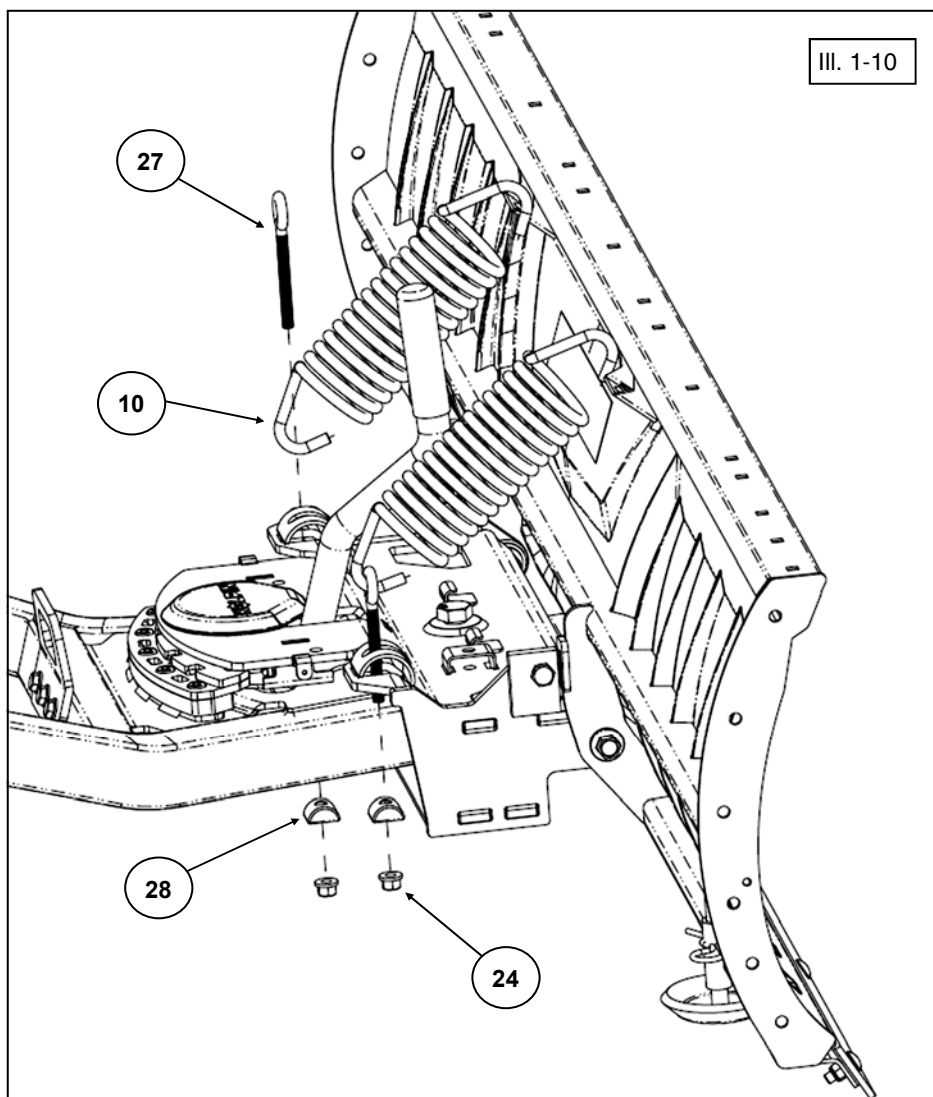
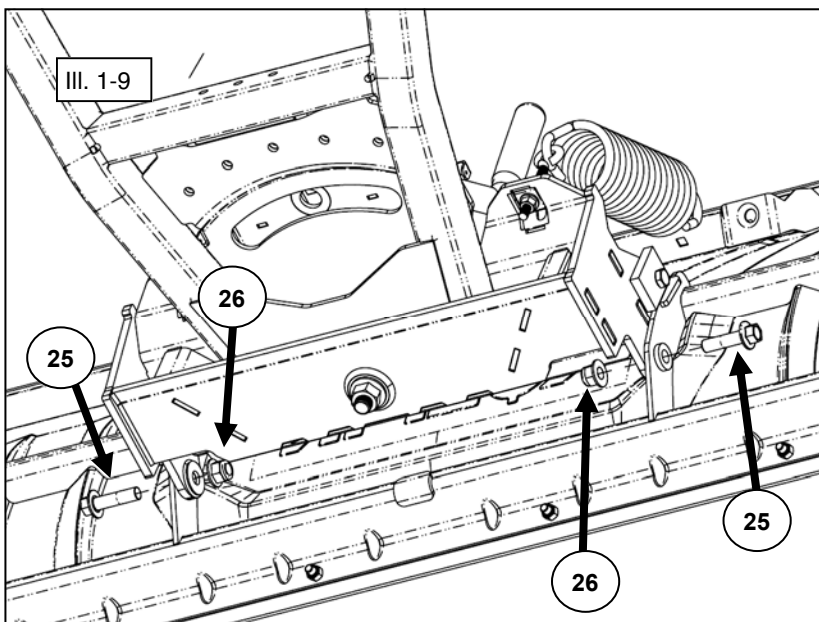
INSTALLATION INSTRUCTIONS

PLOW BLADE ASSEMBLY

11. Align the mounting holes in the frame pivot with the mounting holes in the blade as shown. Fasten using M12 screws (item #25) with M12 locknuts (item #26) by inserting the hardware thru blade holes and frame holes. Tighten locknut, then back out 1/8 turn to allow blade to hinge freely on frame. (See illustration 1-9).

Note, screw should be tight enough to not move, but the blade must rotate freely.

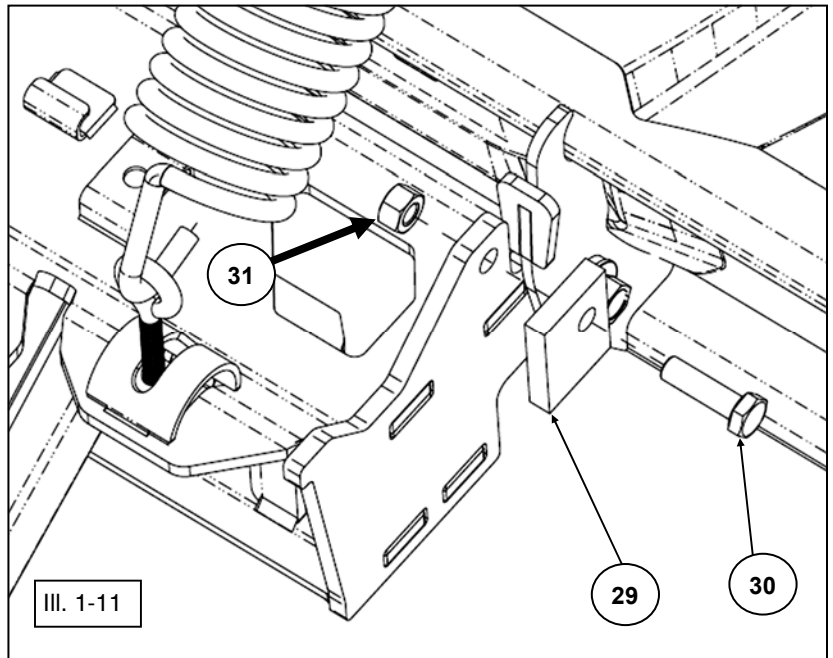
12. Assemble the large tension springs (item #10) and eyebolts (item #27) between the blade assembly and the spring pivot tab brackets. Fasten eyebolts to frame tab with half moon pivot sleeve (item #28) and M8 lock nuts (item #24) onto the eyebolts until 2-3 threads show thru the locking feature. (See illustration 1-10).



INSTALLATION INSTRUCTIONS

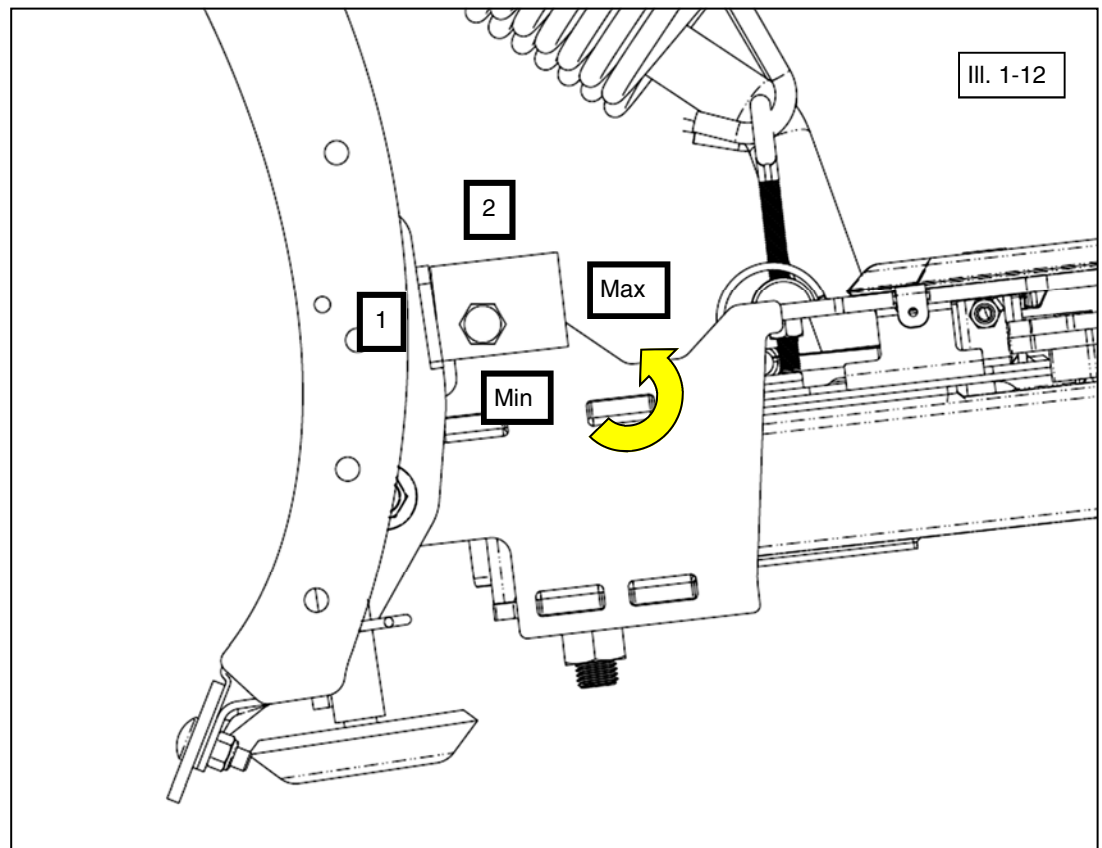
PLOW BLADE ASSEMBLY

13. Install the blade stopper plates (item #29) onto pivot frame. Fasten with M10 hex screw (item #30) and M10 hex locknut (item #31) as shown. (See illustration 1-11). **Note, do not tighten fasteners at this time.**
14. Once plow system is mounted to the UTV, adjust the blade stops and blade trip spring tension as desired to achieve best performance. (See illustration 1-12).
15. Tighten the blade stopper plate fasteners to specification.



BLADE STOPPER ADJUSTMENT

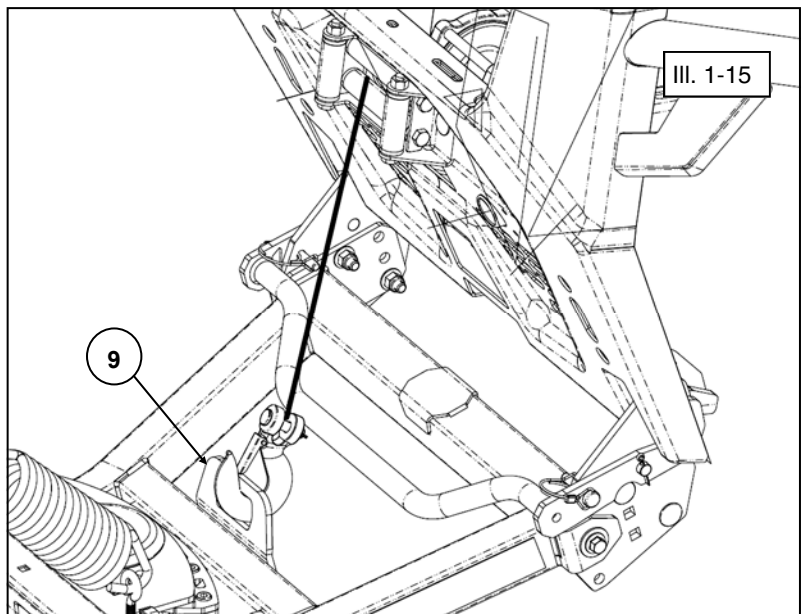
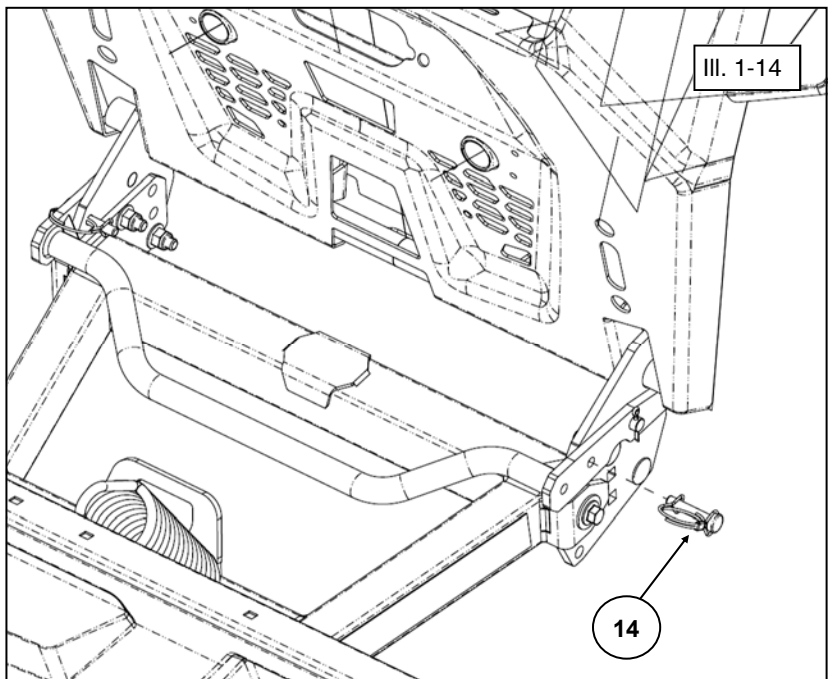
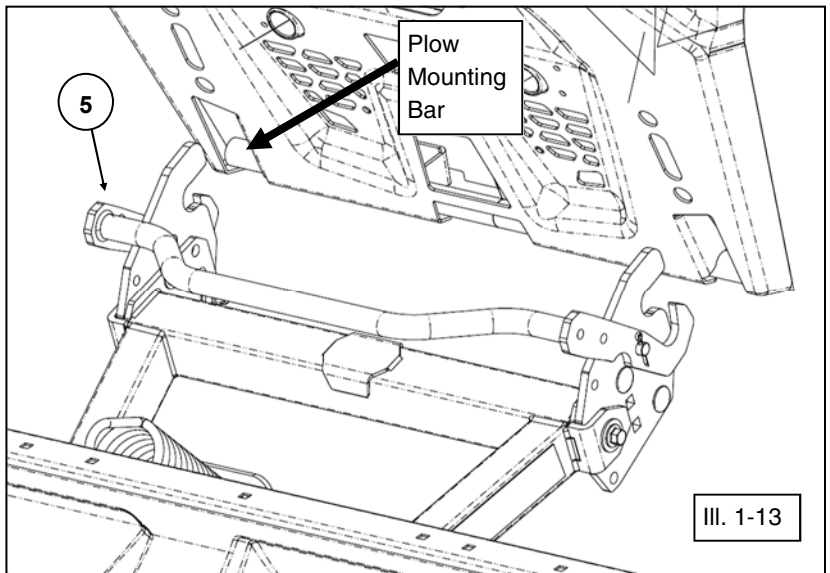
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10MM FASTENER TORQUE: 34 ft-lbs. (46 N-m)



INSTALLATION INSTRUCTIONS

PLOW INSTALLATION

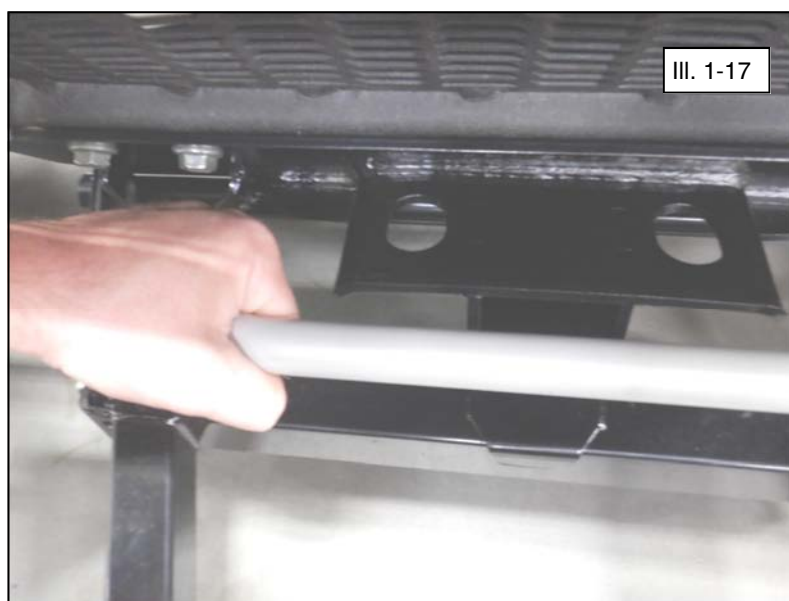
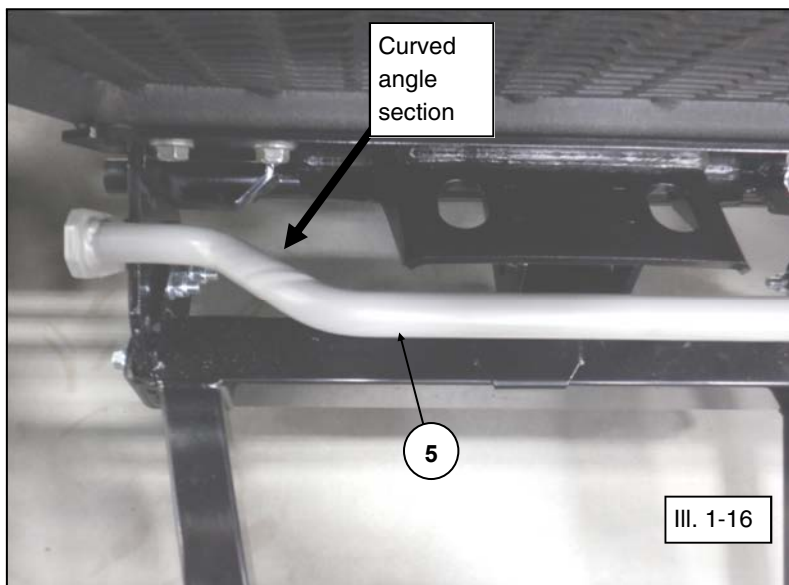
16. **Note, frame installation may require mount plate specific to your vehicle. Certain vehicles come equipped from the factory with the plow mount already attached to the vehicle.**
17. Lay the plow assembly on the ground in front of the vehicle. Make sure the lock pins (item #14) are removed to allow the connection latch (item #5) to swing freely. (See illustration 1-13).
18. Slide the assembly towards the vehicle so that the plow frame attachment pockets slide onto the vehicle plow mounting bar.
19. Once plow frame is fully seated onto the mounting bar, make sure the connection latch is rotated into position to allow the lock pins to be inserted. Insert the locking pins (item #14) being sure to latch the wire retaining clip to secure the pins in place. (See illustration 1-14).
20. Attach the winch's rope hook to the lift bracket loop (item #9) as shown. (See illustration 1-15).



INSTALLATION INSTRUCTIONS

PLOW INSTALLATION

21. *Note, certain plow mounts have built-in receiver hitch. Clearance for opening the connection latch handle can be gained by using curved angle portion of tubing. (See illustrations 1-16 and 1-17).*

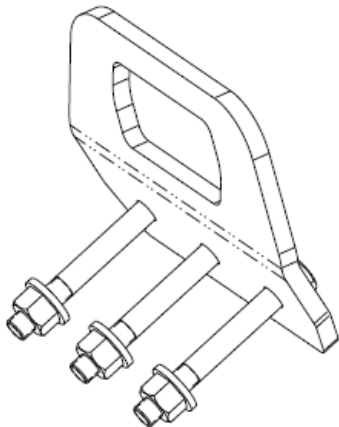


SERVICE KITS									
Item	Description								
3	Pivot Lock Handle					1x			
4	Pivot Lock Gear Plate								
9	Lift Bracket	2x			1x			1x	
11	Small Tension Spring, Pivot Lock Handle	4x				1x			
12	Hex Screw, Zinc Plated, M6-1.0 x 18mm LG	1x				1x			
13	Lock Washer, Zinc Plated, M6	1x				1x			
14	Lock Pin	2x							
15	Cotter Pin	2x						2x	
16	Carriage Screw, Zinc Plated, M10-1.5 x 35mm LG	4x							
17	Hex Flange Locknut, Zinc Plated, M10-1.5	4x							
18	Hex Flange Screw, Zinc Plated, M10-1.5 x 35mm LG	2x							
19	Lock Washer, Zinc Plated, M10	2x							
20	Flat Washer, Zinc Plated, M10	2x							
23	Hex Flange Screw, Zinc Plated, M8-1.25 x 65mm LG	3x			3x				
24	Hex Flange Locknut, Zinc Plated, M8-1.25	10x			3x			5x	2x
25	Hex Flange Screw, Zinc Plated, M12-1.75 x 45mm LG	2x							
26	Hex Flange Locknut, Zinc Plated, M12-1.75	2x							
27	Eye Bolt, Zinc Plated, M8-1.25 x 115mm LG	2x							2x
28	Pivot Sleeve, Zinc Plated	2x							2x
29	Blade Stopper Plate, Zinc Plated	2x							
30	Hex Screw, Zinc Plated, M10-1.5 x 35mm LG	2x							
31	Hex Locknut, Zinc Plated, M10-1.5	2x							
32	Socket Head Cap Screw, Zinc Plt, M8-1.25 x 40mm LG	5x						5x	
33	Hex Flange Screw, M16-2.0 x 120mm LG	1x							
34	Flat Washer, Zinc Plated, M16	1x							
35	Hex Flange Locknut, Zinc Plated, M16-2.0	1x							

SERVICE KITS

See the table on page 13 for a full description.

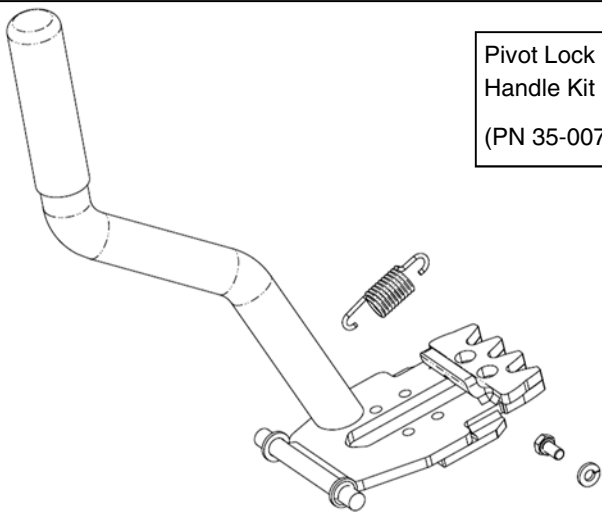
Lift Point Kit
(PN 35-0075)



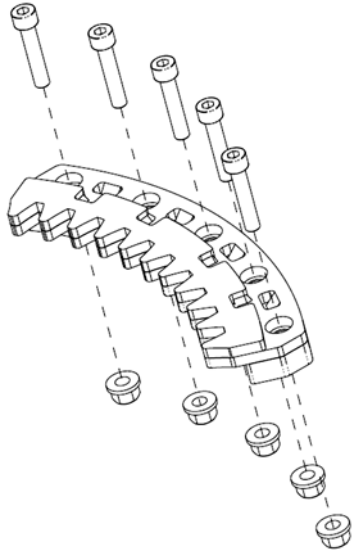
Hardware Kit
(PN 35-0076)



Pivot Lock
Handle Kit
(PN 35-0077)



Pivot Gear
Plate Kit
(PN 35-0078)



Lock Pin Kit
(PN 35-0079)



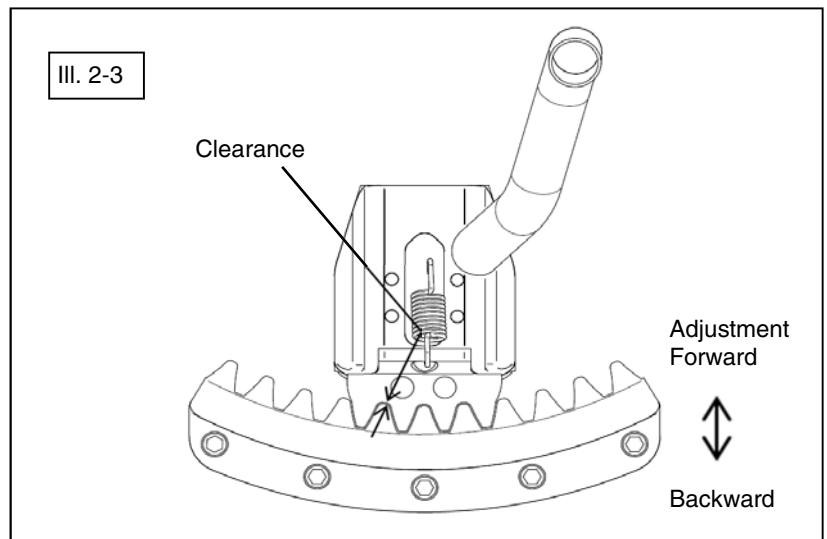
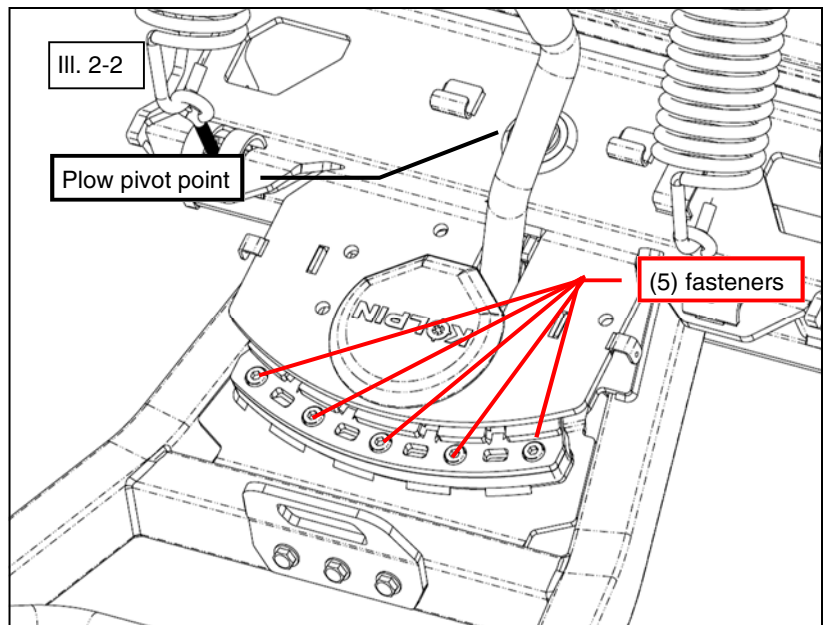
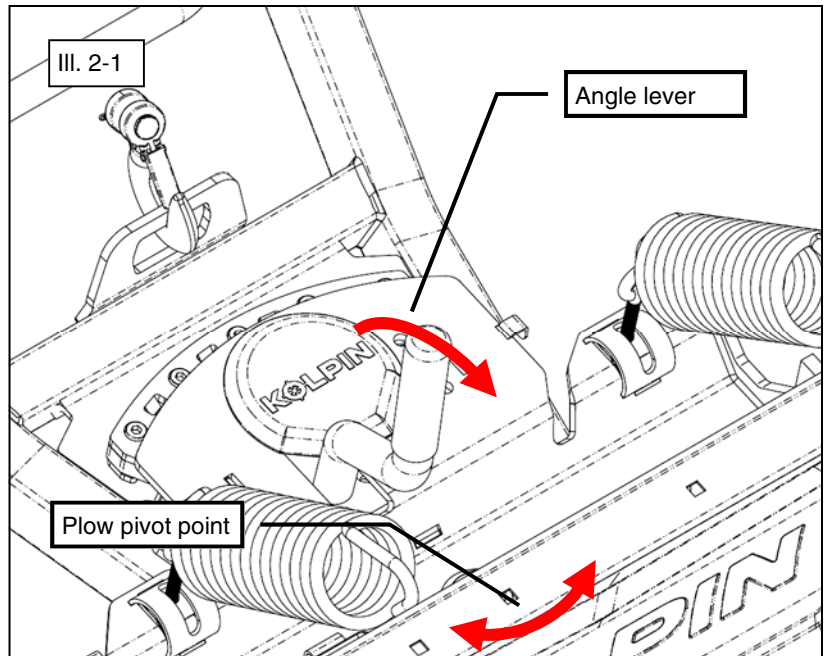
Eyebolt Kit
(PN 34-0002)



OPERATION INSTRUCTIONS

PIVOTING BLADE ANGLE SIDE TO SIDE

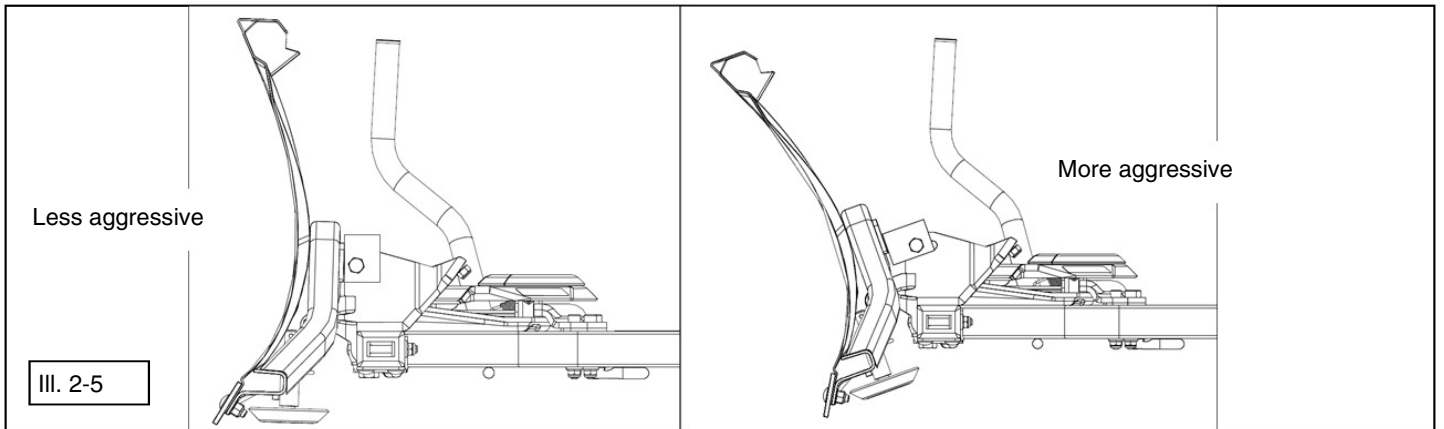
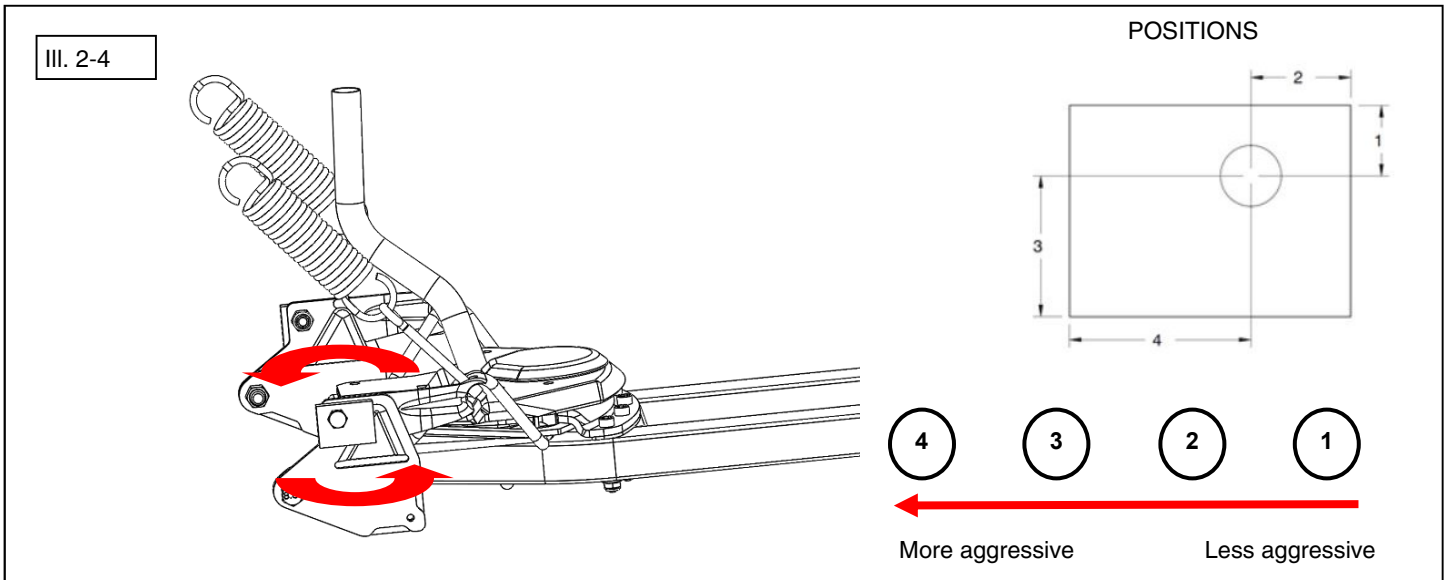
1. To adjust the angle of the plow blade so it pushes to the side, lift the plow up with the lift mechanism to clear the ground. Pull the pivot lock handle towards the blade and swivel the plow to desired angle. Release the pivot lock handle and the plow will lock itself in place at a predetermined angle on either side. (See illustration 2-1).
2. Be sure to frequently check that the (5) fasteners of the gear lock assembly are always tight to ensure good system function. (See illustration 2-2).
3. It is possible to adjust the clearance between the blade position lever and the blade position gear locking plate. Loosen the (5) bolts and move forward or backward the blade position gear locking plate. (See illustration 2-3).



OPERATION INSTRUCTIONS

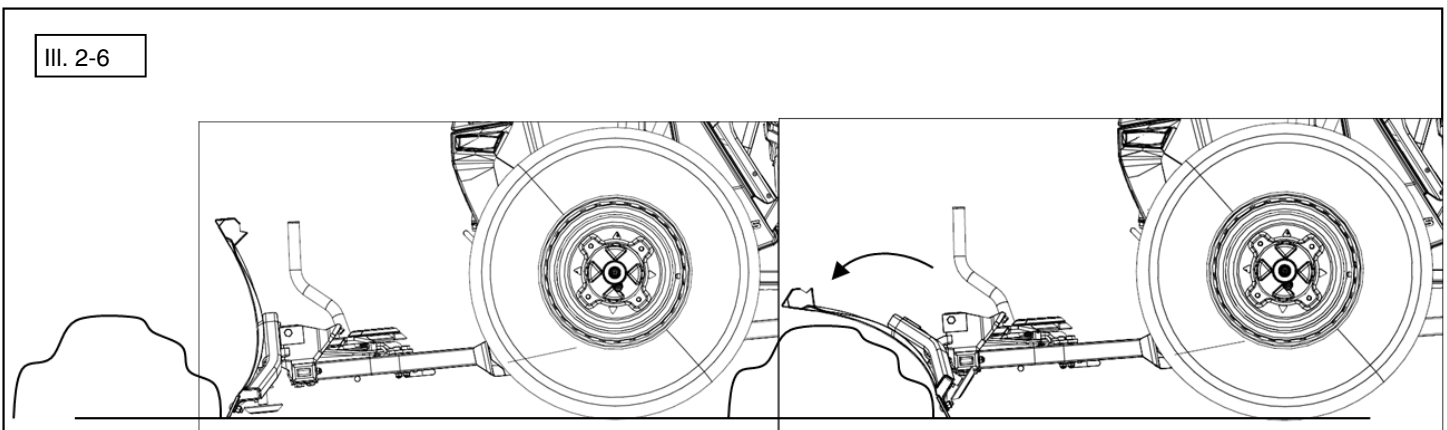
SCRAPING ANGLE ADJUSTMENT

4. Turn adjustable plow stoppers to one of the four positions in order to make the plow more aggressive or less aggressive. More aggressive will scrape better. Less aggressive will create more snow lift. Position 1 is the position with less material. (See illustrations 2-4 and 2-5).



BLADE TRIP HINGE FUNCTION

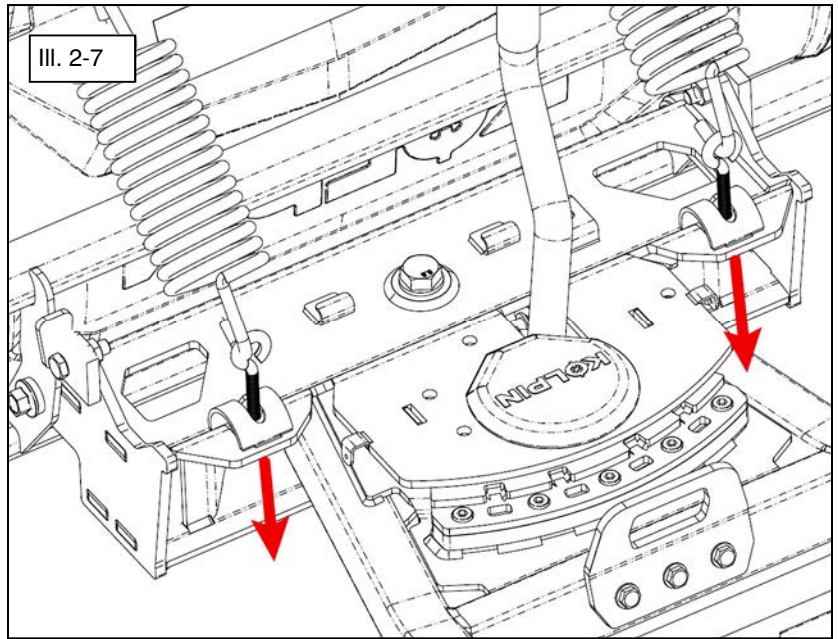
5. The plow is designed to trip forward when it hits a solid object. When the pressure on the plow is released, it will return to its original position by itself. (See illustration 2-6).



OPERATION INSTRUCTIONS

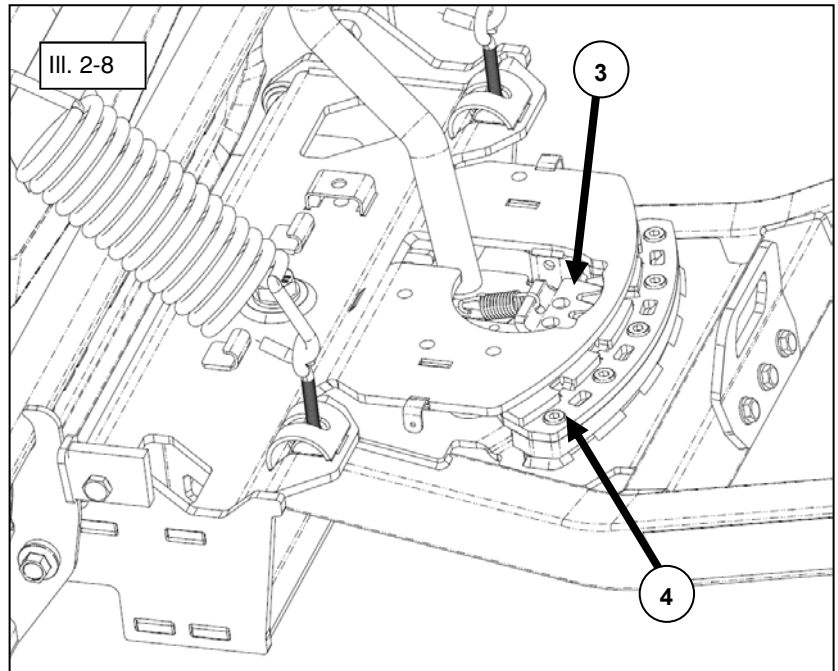
PLOW TRIPPING FORCE ADJUSTMENT

6. The plow trip springs may be set stiffer by tightening the self-locking nuts located at the ends of the eye bolts. For less tension, loosen the nuts. (See illustration 2-7).



PLOW IMPACT SHEAR POINTS

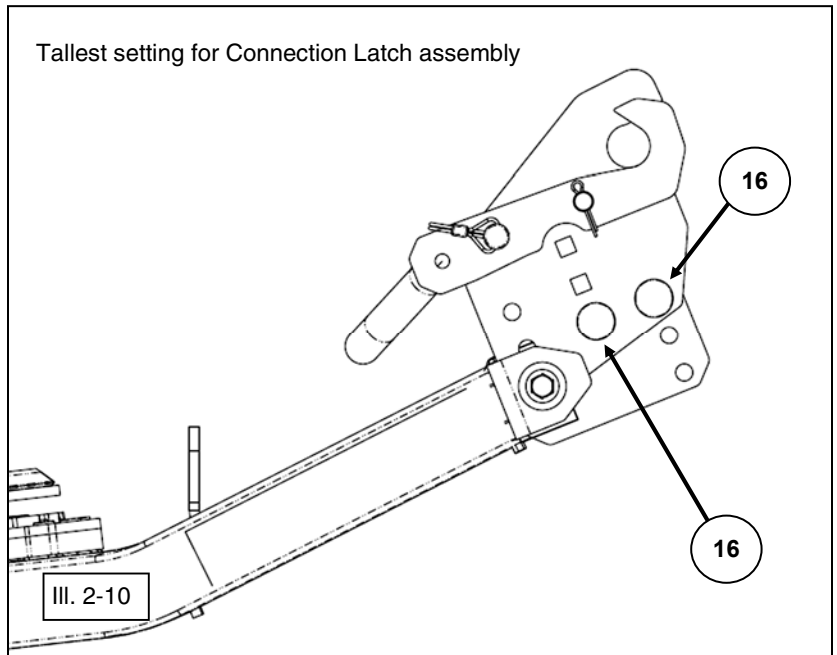
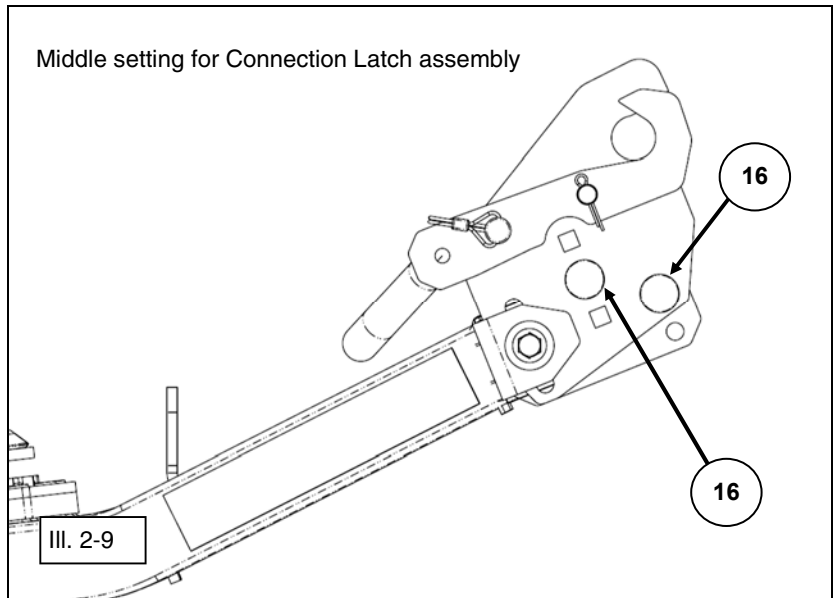
7. In the event of a collision with an obstacle at a speed greater than that recommended for the system, the pivot lock handle (item #3) and/or pivot lock gear plate (item #4) will break to minimize the force of impact in the frame. If the pivot lock handle and/or pivot lock gear plate is broken, inspect the plow system for broken parts. If any part is damaged, the impact velocity was greater than what the system is designed to support. You must then buy a replacement part from your dealer and/or Kolpin customer care. (See illustration 2-8).



OPERATION INSTRUCTIONS

VEHICLE GROUND HEIGHT ADJUSTMENT

8. The plow frame has built-in ground height adjustment tabs for the connection latch assembly. For vehicles that have larger tires or higher ground clearances, the connection latch can be adjusted into the middle position as shown. Adjusting the connection latch will help keep the plow level for higher ground clearances, example 28" - 29" tire sizes. (See illustration 2-9). **Note, refer to installation step 6 for details. The side brackets will be installed into the middle position.**
9. For extra tall vehicles, example 30" or larger tire sizes, adjust the connection latch assembly into the highest position. (See illustration 2-10). **Note, refer to installation step 6 for details. The side brackets will be installed into the tallest position.**





Two Year Limited Warranty

For the period of two (2) years from the purchase date, Kolpin will replace for the original purchaser, free of charge, any part or parts found upon examination by Kolpin to be defective in material, workmanship, or both.

All transportation costs incurred submitting product to Kolpin for warranty consideration must be borne by the purchaser. If Kolpin determines that the product must be returned to the factory for credit, please call 1-877-956-5746 for a Return Merchandise Authorization (RMA) number and shipping instructions.

This warranty does not apply to parts that have been damaged by accident, alteration, abuse, improper maintenance, normal wear, or other causes beyond the manufacturer's control. In order to protect you and your ATV, certain parts of the plow system and/or hardware are designed to fail when the equipment is over-stressed. Parts that are lost due to loosening and improper maintenance are not covered under warranty. This warranty does not cover removal or reinstallation labor fees of the plow system and related components.

Peripheral products such as engines, electric motors, and actuators may carry an original manufacturer's warranty. Most hardware is general in nature and is easily obtained locally. Be sure to replace with minimum metric class 8.8 specification.

Kolpin Outdoors, Inc.

Telephone: (763)-478-5800

Toll Free: (877)-956-5746

Fax Number: (800)-245-7569

www.kolpin.com

Email: customerservice@kolpin.com



FRONT-CONNECT PLOW MOUNT KIT

FOR KAWASAKI RIDGE

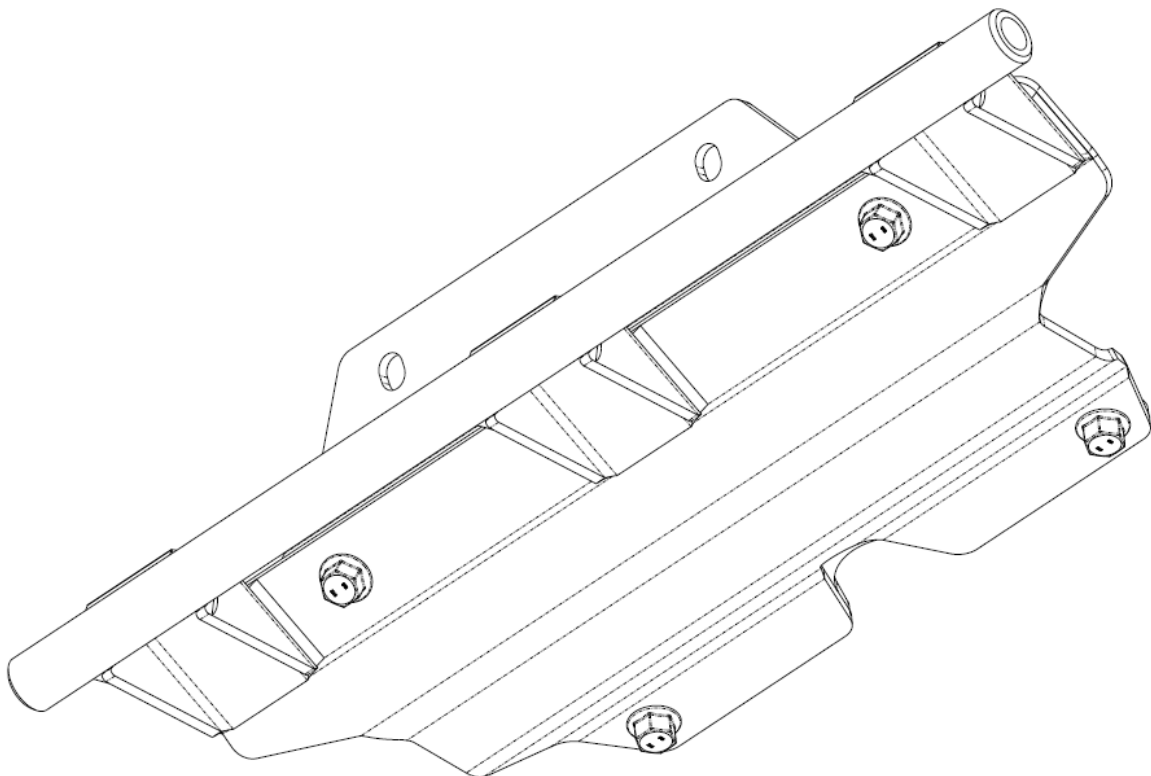
P/N 35-2060

ASSEMBLY / INSTALLATION MANUAL

Application

FRONT-CONNECT PLOW PUSH FRAME NO. 35-0070

Before you begin, please read these instructions and check to be sure all parts and tools are accounted for.
The following instructions contain details required to install and service the contents of this kit.



INTRO

Thank you for purchasing Kolpin engineered products. With proper installation, usage, care, and maintenance, your Kolpin product will last for years to come.

BEFORE YOU BEGIN

- Your Kolpin accessory is exclusively designed for your vehicle.
- Read and understand the entire installation manual, including all installation instructions, operating instructions, safety warnings and guidelines before installing or operating your accessory. Failure to comply may result in damage to the product and / or vehicle, and can lead to hazards up to and including death.
- Verify all parts and tools are accounted for. If parts are missing, do not return to the store. Call us for help, **Toll Free 1-877-956- 5746**
- Follow all steps correctly and in the sequence described.
- Keep these instructions for future reference or for informational requests.
- To facilitate installation, make sure that your vehicle is clean and free of debris.
- All directions referring to right and left are from the rider perspective when sitting on the machine.

ASSEMBLY TIME

Approximately 24 minutes

SAFETY INFORMATION

Please read and understand all Cautions, Notices, and Warnings in this manual before you begin. In order to protect you and your ATV / UTV, certain parts of the plow system and / or hardware are designed to fail when the equipment is over-stressed.

Follow these guidelines to ensure satisfactory operation:

- Read this manual and your ATV / UTV operators manual before use.
- Periodically check for wear and tightness of all fasteners. Replace or re-torque fasteners as necessary.
- Before first use, set plow in the furthest right or left angled position to check for interference with the vehicle.
- Operate with extreme caution on slopes and rough terrain. Be familiar with the area before you plow.
- Be aware of immovable objects that could be hidden in the area you are plowing.
- To avoid damage when pushing snow into a pile, reverse direction before raising the plow blade.
- Do not ram the plow blade into piles of snow.
- For best results, set the suspension preload of your ATV / UTV to the stiffest setting.
- To reduce steering effort and increase mobility, set the air pressure of your tires to the maximum pressure specification.
- The plow skids are adjustable. General skid setting is even with the plow wear bar bottom edge, higher settings reduce the chance of rocks and gravel from being collected.
- To increase traction during plow operation, operators can try: Securing weight to the ATV / UTV for additional tire downforce, reducing tire air pressure, or installing tire chains.



WARNING



TO AVOID SERIOUS INJURY OR DEATH:

1. DO NOT EXCEED 5 MPH (8 KMH) WITH BLADE INSTALLED
2. OPERATE WITH EXTREME CAUTION ON SLOPES, STEEP GRADES, AND ROUGH TERRAIN
3. ALLOW NO RIDERS ON BLADE OR ATV WHILE MOVING OR STATIONARY
4. KEEP BYSTANDERS AWAY FROM THE BLADE OR ATV WHILE MOVING OR STATIONARY
5. WHEN PUSHING HEAVY MATERIAL, DIRECTION CONTROL MAY BECOME DIFFICULT
6. BEFORE ADJUSTING BLADE: STOP ATV ENGINE; SET AND LOCK BRAKES; RAISE AND LOCK BLADE
7. LOWER BLADE TO DOWN POSITION WHEN BLADE AND ATV ARE NOT IN USE
8. READ BLADE INSTRUCTION SHEETS AND ATV OWNER'S MANUAL

REQUIRED SOLD SEPARATELY

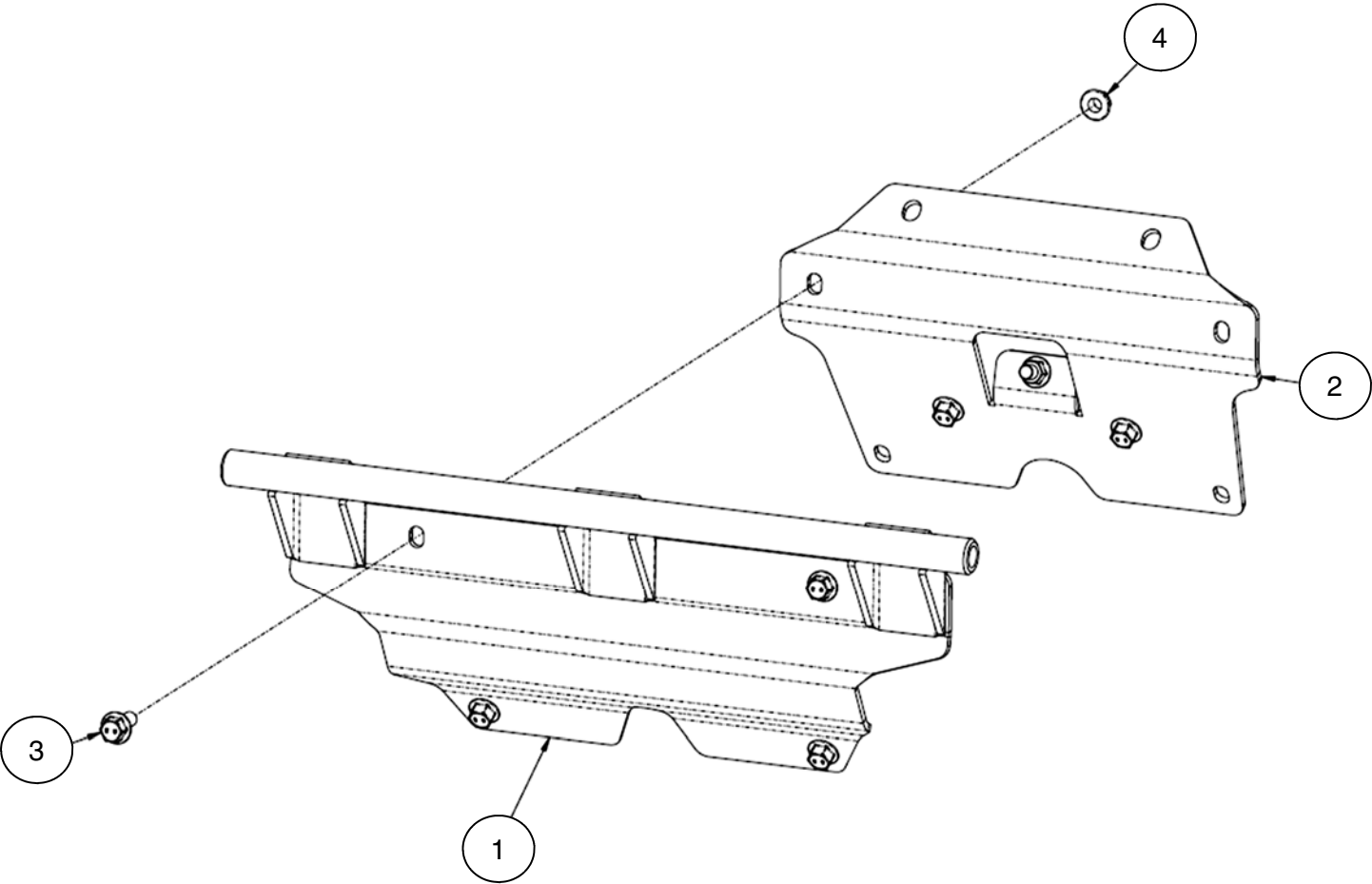
Only parts for installation of the Plow Mounting Bracket Kit are included. For complete snow plow system installation, additional items are required such as a plow push frame, plow blade, winch, and winch mount. See www.Kolpin.com for products to complete your plow system.

TOOLS REQUIRED

- Safety Glasses
- Socket Set, Metric
- Torque Wrench
- Wrench Set, Metric
- Drill
- 7/16" Drill Bit

KIT CONTENTS

Item	Qty	Part Description	Part Number
1	1	Ridge Lower Plow Mounting Bracket	-
2	1	Ridge Upper Mounting Bracket	-
3	7	Hex Flange Bolt, Zinc Plated, M10-1.5 x 25mm LG	-
4	7	Hex Flange Locknut, Zinc Plated, M10-1.5	-
5	1	Instruction Guide (not shown)	-



INSTALLATION INSTRUCTIONS

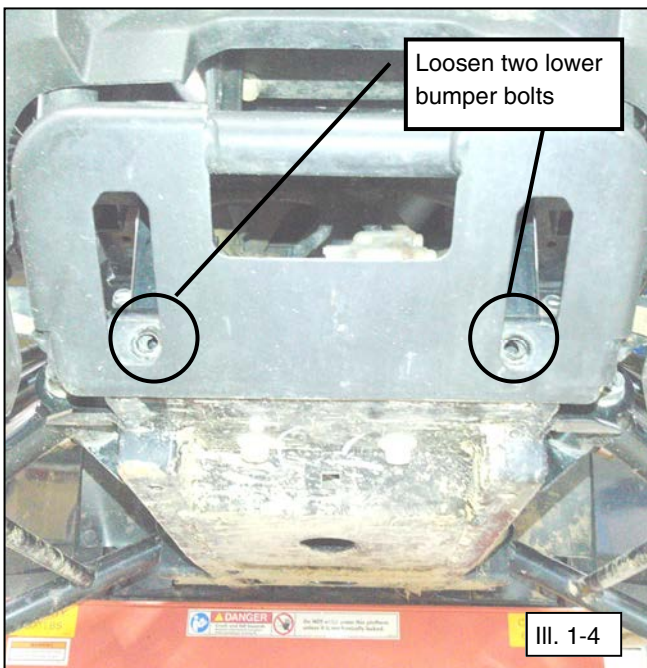
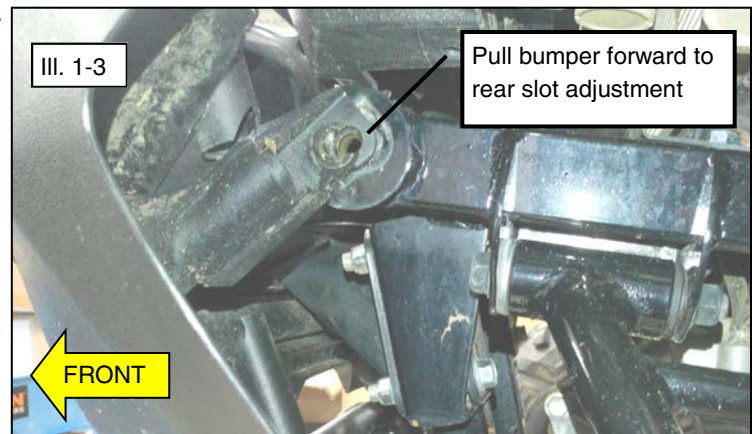
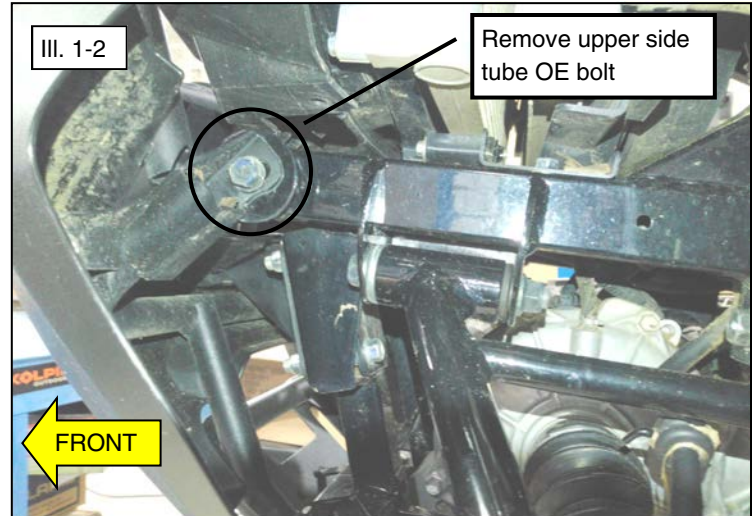
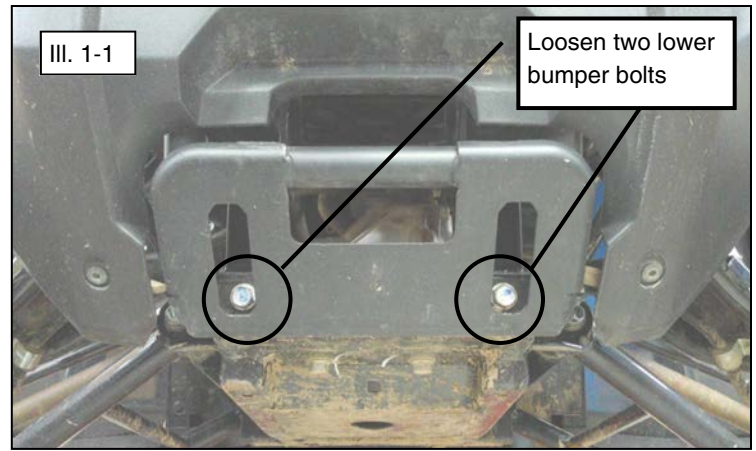
VEHICLE PREPARATION

GENERAL

1. Park vehicle on a flat surface.
2. Shift vehicle into park.
3. Turn key to OFF position and remove key.

ACCESSORY INSTALLATION

4. Loosen the OE lower bumper bolts. Do not completely remove these bolts, leave loose to keep bumper on vehicle. (See illustration 1-1).
5. Working one side at a time, remove OE bolt from the upper side tube support of the bumper. (See illustration 1-2).
6. Pull bumper forward slightly, to allow the side bolt hole in the frame to align with the rear adjustment slot in bumper upper side support as shown. (See illustration 1-3)
7. Re-install the OE bolt with bumper side tube at rear adjustment slot. Do not fully tighten.
8. Repeat steps 5-7 for the other side of vehicle bumper.
9. Remove the OE lower bumper bolts from step 4 as shown. (See illustration 1-4). **Note, the OE bumper bolts will be re-used later.**



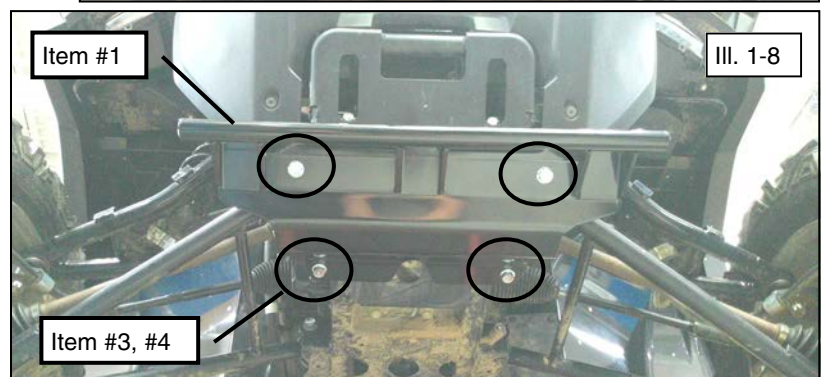
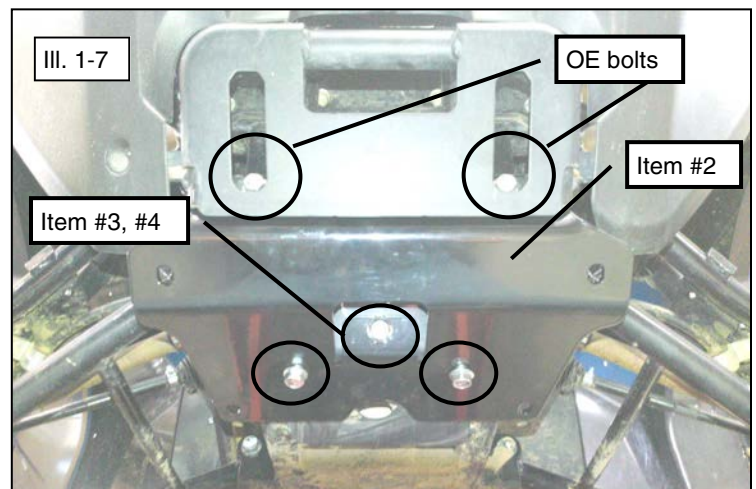
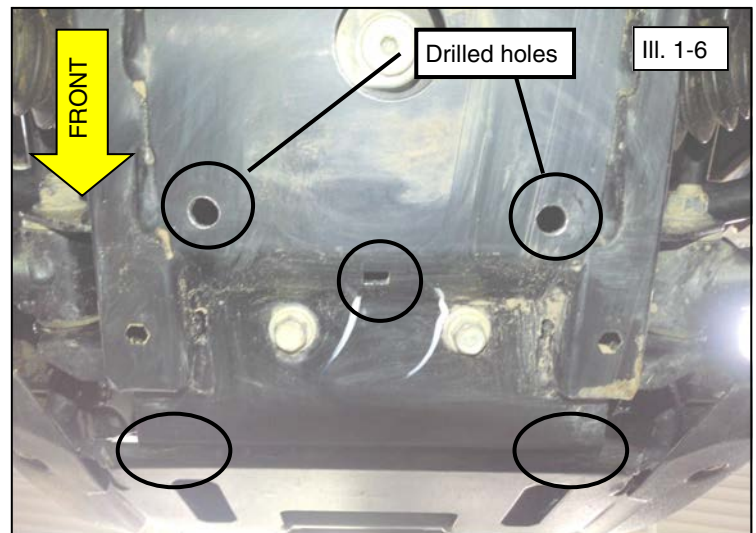
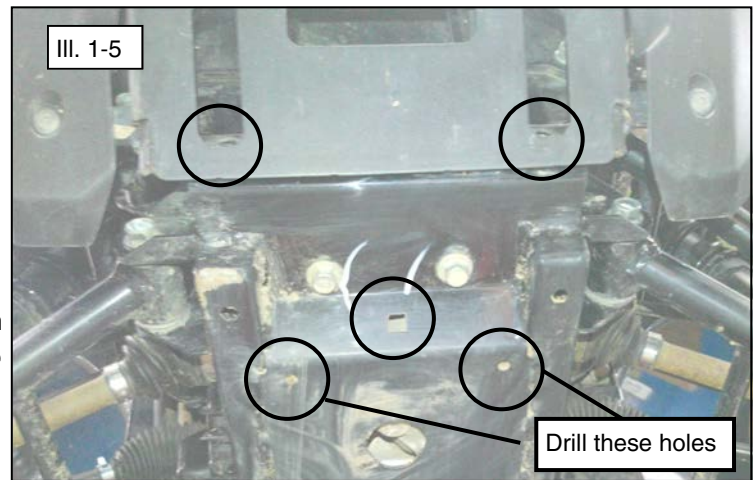
ACCESSORY INSTALLATION

(continued)

10. The plow mounting brackets are attached using the five holes circled. (See illustrations 1-5 and 1-6).
11. The two rear underbody holes in the front skid plate need to be drilled to larger 7/16" diameter. Using 7/16" drill bit, drill the holes as shown. (See illustration 1-6). **Note, be careful not to hit anything above the frame with the drill bit.**
12. Position the upper mounting bracket (item #2) up to the vehicle and loosely fasten re-using OE lower bumper bolts from step 9 as shown. (See illustration 1-7). **Note, do not fully tighten at this time.**
13. Using three of the M10 bolts (item #3) and M10 locknuts (item #4) as shown, continue fastening the mount plate to frame. Tighten to M10 specification. (See illustration 1-7).
14. Install the lower plow mounting bracket (item #1) using the four remaining M10 bolts (item #3) thru the upper mounting plate as shown. Fasten using M10 locknuts (item #4) on top side of plate. (See illustration 1-8).
15. Tighten all hardware to specification.

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10MM FASTENER TORQUE:
34 ft. lbs. (46 Nm)

Note, the lower plow mounting bracket (item #1) can be removed from the upper mounting bracket (item #2) during non-plowing season.



WARRANTY



Two Year Limited Warranty

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Email: customerservice@kolpin.com



POLY BLADE KIT

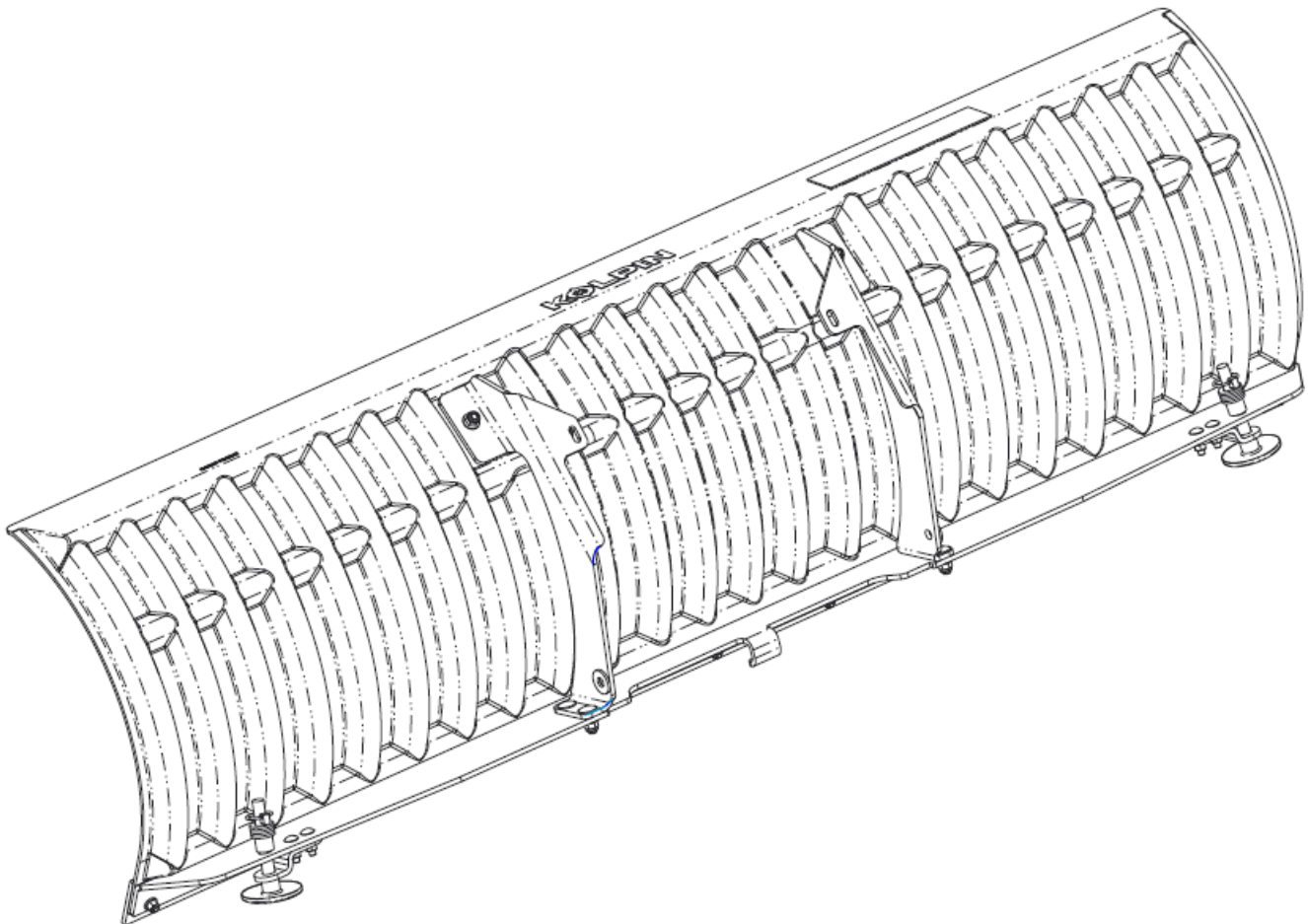
P/N 31-2060 / 31-2072 / 31-2084

ASSEMBLY / SPARE PARTS MANUAL

Application

PLOW PUSH FRAME NO. 33-0000, 33-0070 or 35-0070

Before you begin, please read these instructions and check to be sure all parts and tools are accounted for.
The following instructions contain details required to install and service the contents of this kit.



OPERATING INSTRUCTIONS

Congratulations! You've just purchased one of the industry's top plow system component. The Poly Blade works great for all types of plowing. With proper care and maintenance, your plow blade will last for many years! The 60" (152 cm) / 72" (183 cm) / 84" (213 cm) Blade Assembly allows for quality snow moving capacity and snow roll-over characteristics. Additionally, this blade will handle light to medium-duty summer landscape work.

NOTICE

Plow operation requires additional components for operation: *Kolpin Plow Push Frame, Winch Kit, ATV / UTV Plow Mount **

**These components may be specific to your vehicle.*

Please read and understand all assembly instructions, notices and warnings before assembling and operating your plow system.

Follow these guidelines to ensure satisfactory operation:

- Read this manual and your ATV/ UTV operators manual before use.
- Periodically check for wear and tightness of all fasteners. Replace or re-torque fasteners as necessary.
- Before first use, set plow in the furthest right or left angled position to check for clearance between the plow and front tires.
- Operate with extreme caution on slopes and rough terrain. Be familiar with the area before you plow.
- Be aware of immovable objects that could be hidden in the area you are plowing.
- To avoid damage when pushing snow into a pile, reverse direction before raising the plow blade.
- Do not ram the plow blade into piles of snow.
- For best results, set the suspension preload of your ATV/ UTV to the stiffest setting.
- To reduce steering effort and increase mobility, set the air pressure of your tires to the maximum pressure specification.
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- To increase traction during plow operation, operators can try: Securing weight to the ATV/ UTV for additional tire downforce, reducing tire air pressure, or installing tire chains.

SAFETY INFORMATION

Our plow systems were designed with your safety in mind. Please read and understand all Cautions, Notices and Warnings in this manual before you begin. In order to protect you and your ATV, certain parts of the plow system and/or hardware are designed to fail when the equipment is over-stressed.



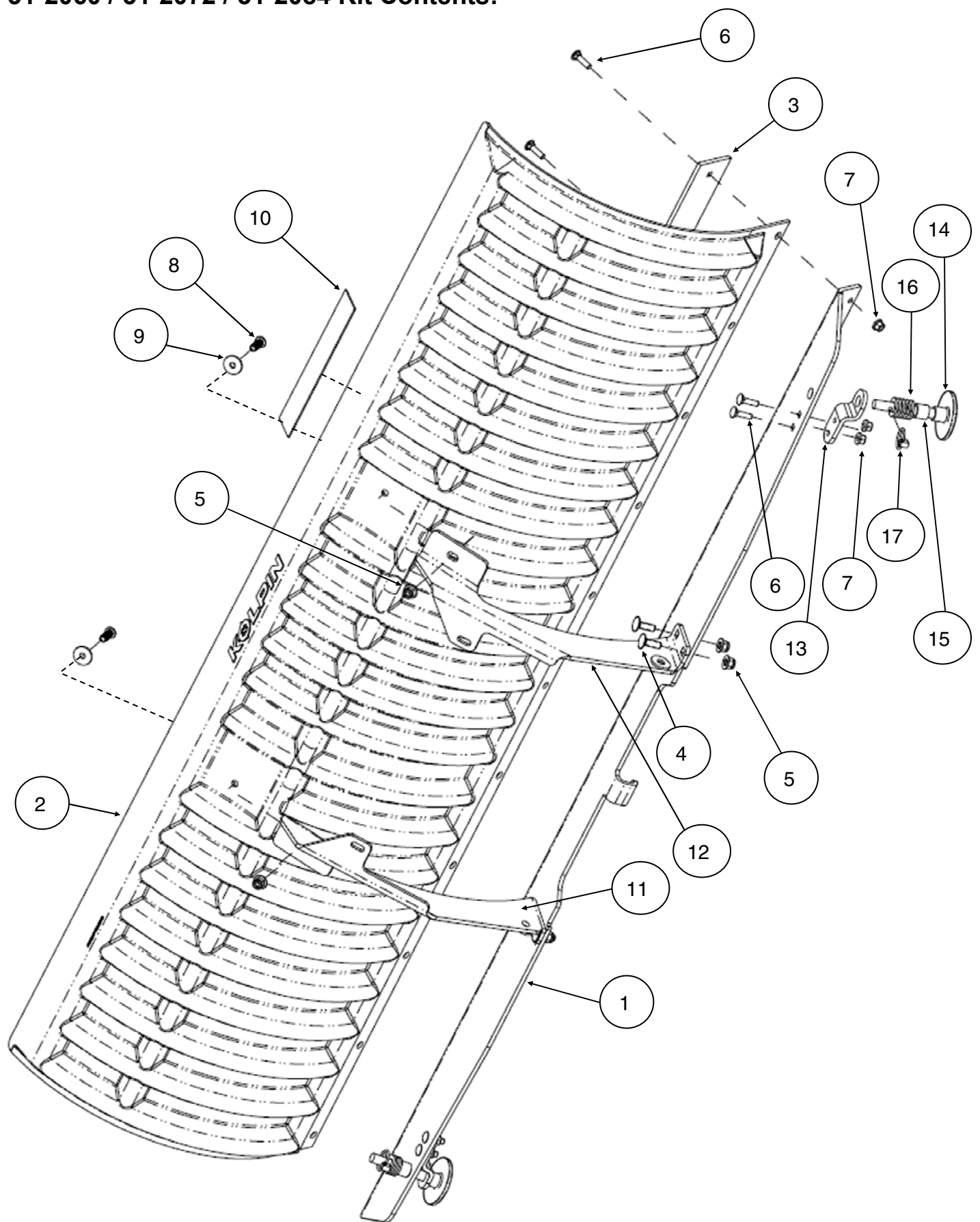
WARNING



TO AVOID SERIOUS INJURY OR DEATH:

1. **DO NOT EXCEED 5 MPH (8 KMH) WITH BLADE INSTALLED**
2. **OPERATE WITH EXTREME CAUTION ON SLOPES, STEEP GRADES, AND ROUGH TERRAIN**
3. **ALLOW NO RIDERS ON BLADE OR ATV WHILE MOVING OR STATIONARY**
4. **KEEP BYSTANDERS AWAY FROM THE BLADE OR ATV WHILE MOVING OR STATIONARY**
5. **WHEN PUSHING HEAVY MATERIAL, DIRECTION CONTROL MAY BECOME DIFFICULT**
6. **BEFORE ADJUSTING BLADE: STOP ATV ENGINE; SET AND LOCK BRAKES; RAISE AND LOCK BLADE**
7. **LOWER BLADE TO DOWN POSITION WHEN BLADE AND ATV ARE NOT IN USE**
8. **READ BLADE INSTRUCTION SHEETS AND ATV OWNER'S MANUAL**

31-2060 / 31-2072 / 31-2084 Kit Contents:



31-2060 / 31-2072 / 31-2084 Kit Contents (continued):

Item	Qty	Part Description	Part Number
1	1	60" Rear Angle Blade Support	-
1	1	72" Rear Angle Blade Support	-
1	1	84" Rear Angle Blade Support	-
2	1	60" Plastic Moldboard Blade	31-2060-CP01
2	1	72" Plastic Moldboard Blade	31-2072-CP01
2	1	84" Plastic Moldboard Blade	31-2084-CP01
3	1	60" Wear Bar, Double Sided	31-2160
3	1	72" Wear Bar, Double Sided	31-2172
3	1	84" Wear Bar, Double Sided	31-2184
4	4	Carriage Bolt, Zinc Plated, M10-1.50 X 30mm LG	-
5	6	Hex Flange Lock Nut, Zinc Plated, M10-1.50	-
6	13	(60" kit) Carriage Bolt, Zinc Plated, M8-1.25 X 30mm LG	-
6	15	(72" kit) Carriage Bolt, Zinc Plated, M8-1.25 X 30mm LG	-
6	17	(84" kit) Carriage Bolt, Zinc Plated, M8-1.25 X 30mm LG	-
7	13	(60" kit) Hex Flange Lock Nut, Zinc Plated, M8-1.25	-
7	15	(72" kit) Hex Flange Lock Nut, Zinc Plated, M8-1.25	-
7	17	(84" kit) Hex Flange Lock Nut, Zinc Plated, M8-1.25	-
8	2	Button Head Cap Screw, Zinc Plated, M10-1.5 X 30mm LG	-
9	2	Fender Washer, Zinc Plated, M10	-
10	1	Top Warning Decal	31-2072-CP03
11	1	Vertical Rib Blade Support, LH	-
12	1	Vertical Rib Blade Support, RH	-
13	2	Skid Bracket	-
14	2	Skid Shoe	PUR1467
15	4	Spacer	-
16	10	Flat Washer, Zinc Plated, M18	-
17	2	Lynch Quick Pin, Zinc Plated, 4.76mm Dia x 38mm LG	PUR1359
18	1	Instruction Guide (not shown)	-

BEFORE YOU BEGIN:

- Your Kolpin accessory is exclusively designed for your vehicle.
- Please read and understand all instructions.
- Verify all parts and tools are accounted for.
- To ensure a satisfactory installation, follow all steps correctly and in the sequence described.
- Keep these instructions for future reference or for informational requests.
- To facilitate installation, make sure that your vehicle is clean and free of debris.
- All directions referring to right and left are when the rider is sitting on the machine.

TOOLS REQUIRED:

- Basic Metric Wrench and Socket Set
- Torque Wrench

APPROXIMATE ASSEMBLY TIME: 15 minutes

Note: If any hardware is missing, do not return to the store. Call us to help, Toll Free 1-877-956-5746.

SPARE KIT INFORMATION:

SPARE KITS		Wear bar kit P/N 31-2160 / 31-2172 / 31- 2184	Skid shoe kit P/N 31-2155	Hardware kit P/N 31-2073	Wear bar bolt kit P/N 12-0010
Item	Description				
3	Wear Bar, Double Sided	1x / 1x / 1x			
4	Carriage Bolt, Zinc Plated, M10-1.50 X 30mm LG			4x	
5	Hex Flange Lock Nut, Zinc Plated, M10-1.50			6x	
6	Carriage Bolt, Zinc Plated, M8-1.25 X 30mm LG	9x / 11x / 13x		15x	11x
7	Hex Flange Lock Nut, Zinc Plated, M8-1.25	9x / 11x / 13x		15x	11x
8	Button Head Cap Screw, Zinc Plated, M10-1.5 X 30mm LG			2x	
9	Fender Washer, Zinc Plated, M10			2x	
14	Skid Shoe		2x		
15	Spacer		4x	4x	
16	Flat Washer, M18		10x	10x	
17	Lynch Quick Pin, Zinc Plated, 4.76mm Dia x 38mm LG		2x	2x	

Spare Kit Notes:

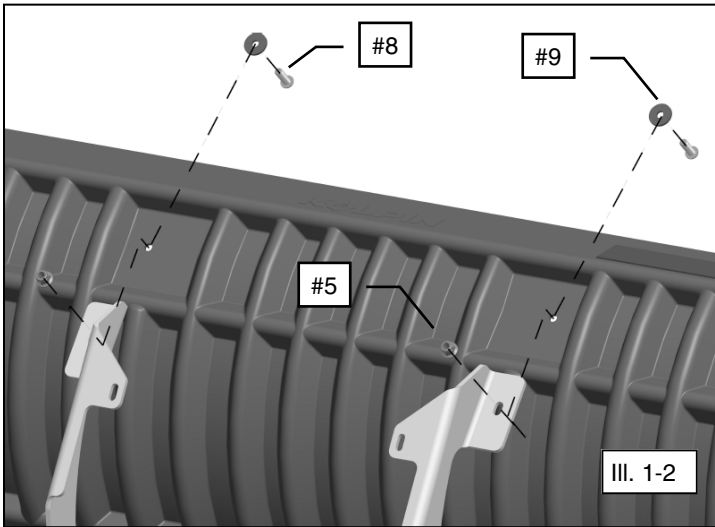
- Spare kits may contain extra hardware that is used for other mount kits. Extra hardware can be discarded.

USE AND CARE INFORMATION:

Note: The wear bar cutting edge is double-sided, so when bottom side wears thin, flip the bar over and use the top side for extended cutting edge life.

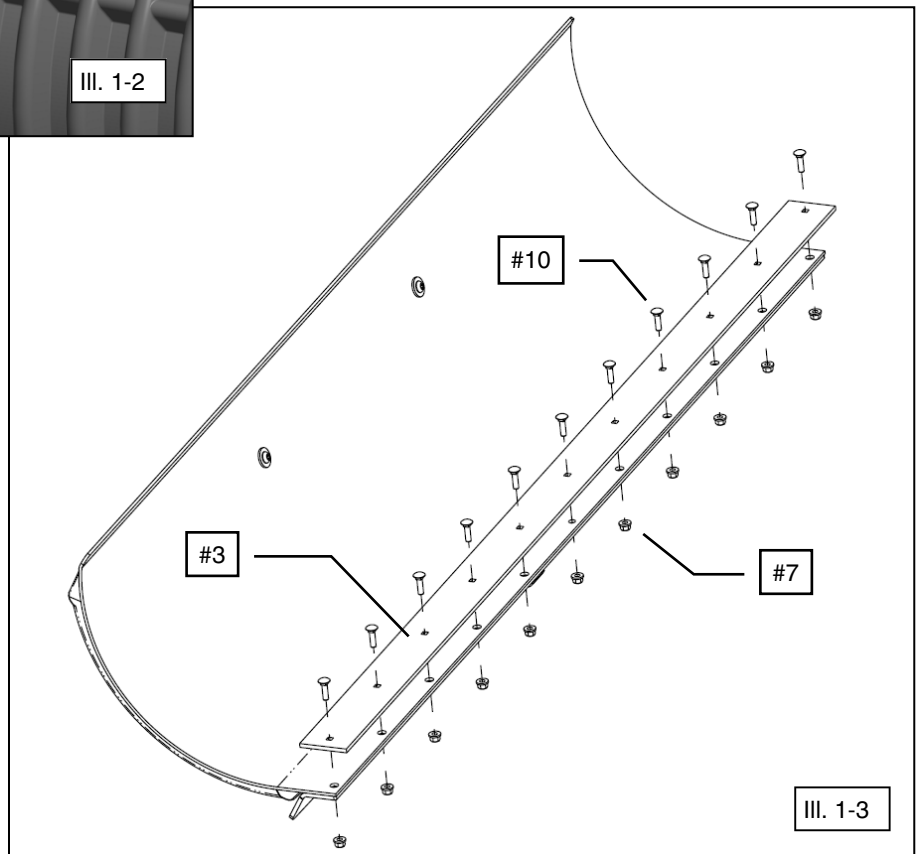
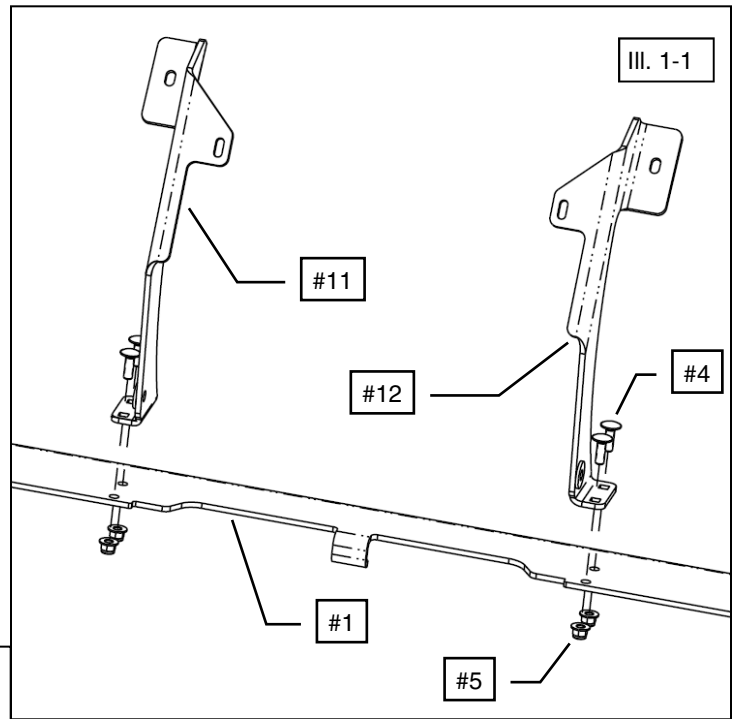
ASSEMBLY INSTRUCTIONS:

1. Attach vertical rib blade supports (items #11 and #12) to the rear angle blade support (item #1) as shown. Use M10 carriage screws (item #4) and fasten with M10 locknut (item #5). (See illustration 1-1). **Note, do not fully tighten at this time.**
2. Attach the assembled support to the moldboard blade (item #2) at the upper locations using fender washers (item #9) and M10 button cap screws (item #8) as shown. Fasten using M10 locknuts (item #5). **Note, do not fully tighten at this time.**



3. Place the blade assembly on its back and attach the wear bar (item #3) to the blade and support assembly using the M8 carriage bolts (item #10) as shown. Fasten using M8 locknuts (item #7). (See illustration 1-3). **Note, start with the middle wear bar hole first. The middle hole in the plastic moldboard is smaller to help index/center the blade.**
4. Torque M8 fasteners to specification.


8MM FASTENER TORQUE:
17 ft. lbs. (23 Nm)



ASSEMBLY INSTRUCTIONS (continued):

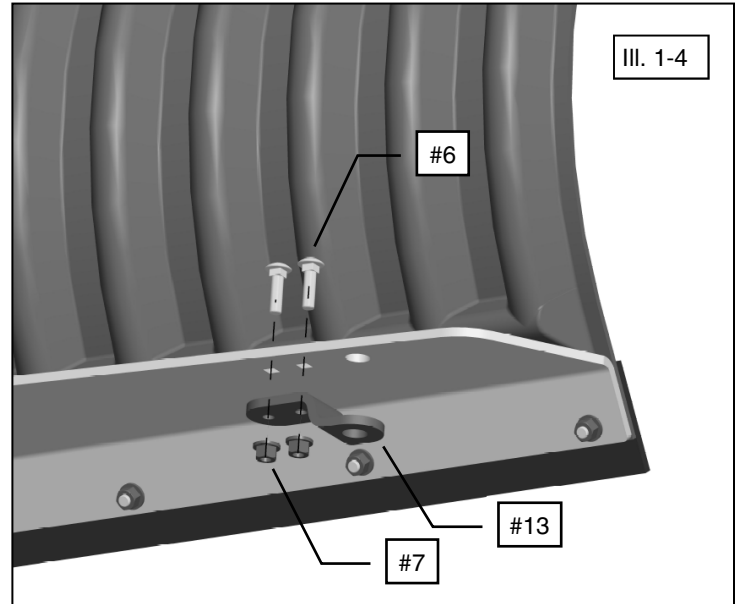
- Torque the lower vertical support rib fasteners (items #4 and #5) to specification below.

 = T
LOWER SUPPORT RIB FASTENER
TORQUE:
30 ft. lbs. (41 Nm)

- Torque the lower vertical support rib fasteners (items #8 and #5) to specification below.

 = T
UPPER SUPPORT RIB FASTENER
TORQUE:
17 ft. lbs. (23 Nm)

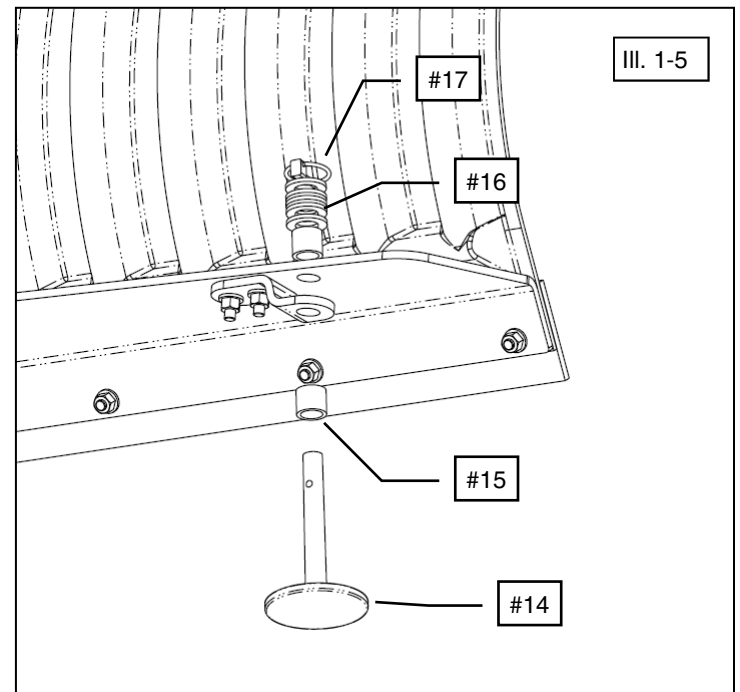
- Attached skid brackets (item #13) to each end of the rear angle support (item #1) using M8 carriage screws (item #6) as shown. Fasten using M8 locknuts (item #7). (See illustration 1-4).



- Torque to M8 specification.

 = T
8MM FASTENER TORQUE:
17 ft. lbs. (23 Nm)

- Assemble and install skid components (items #14, #15 and #16) as shown. Fasten using quick pins (items #17). (See illustration 1-5). **Note, initial setting of skid height depends on the terrain. Set the skids even with the wear bar cutting edge for level surfaces such as concrete or asphalt. For irregular surfaces, lower the skids to raise the wear bar cutting edge.**





Two Year Limited Warranty

For the period of two (2) years from the purchase date, Kolpin will replace for the original purchaser, free of charge, any part or parts found upon examination by Kolpin to be defective in material, workmanship, or both.

All transportation costs incurred submitting product to Kolpin for warranty consideration must be borne by the purchaser. If Kolpin determines that the product must be returned to the factory for credit, please call 1-877-956-5746 for a Return Merchandise Authorization (RMA) number and shipping instructions.

This warranty does not apply to parts that have been damaged by accident, alteration, abuse, improper maintenance, normal wear, or other causes beyond the manufacturer's control. In order to protect you and your ATV, certain parts of the plow system and/or hardware are designed to fail when the equipment is over-stressed. Parts that are lost due to loosening and improper maintenance are not covered under warranty. This warranty does not cover removal or reinstallation labor fees of the plow system and related components.

Peripheral products such as engines, electric motors, and actuators may carry an original manufacturer's warranty. Most hardware is general in nature and is easily obtained locally. Be sure to replace with minimum metric class 8.8 specification.

Kolpin Outdoors, Inc.

Telephone: (763)-478-5800

Toll Free: (877)-956-5746

Fax Number: (800)-245-7569

www.kolpin.com

Email: customerservice@kolpin.com

SNOW PLOW BLADE

Assembly / Owner's Manual

APPLICATION: Plow Push Frame

P/N 33-0000; 33-0070; 34-0000; 34-0070; 35-0070

Verify accessory fitment at [Kolpin.com](https://www.kolpin.com)



INTRO

Thank you for purchasing Kolpin® engineered products. With proper installation, usage, care, and maintenance, your Kolpin® product will last for years to come.

BEFORE YOU BEGIN

- Read and understand the entire installation manual, including all installation instructions, operating instructions, safety warnings and guidelines before installing or operating your accessory. Failure to comply may result in damage to the product and / or vehicle, and can lead to hazards up to and including death.
- Verify all parts and tools are accounted for. If parts are missing, do not return to the store. Call us for help, **Toll Free 1-877-956- 5746**
- Follow all steps correctly and in the sequence described.
- Keep these instructions for future reference or for informational requests.
- To facilitate installation, make sure that your vehicle is clean and free of debris.
- All directions referring to right and left are from the rider perspective when sitting on the machine.

ASSEMBLY TIME

Approximately 15 minutes

NOTICE

The Kolpin® Steel Snow Plow Blade kit comes fully assembled from factory.

SAFETY INFORMATION

Please read and understand all Cautions, Notices, and Warnings in this manual before you begin. In order to protect you and your ATV / UTV, certain parts of the plow system and / or hardware are designed to fail when the equipment is over-stressed.

Follow these guidelines to ensure satisfactory operation:

- Read this manual and your ATV / UTV operators manual before use.
- Periodically check for wear and tightness of all fasteners. Replace or re-torque fasteners as necessary.
- Before first use, set plow in the furthest right or left angled position to check for interference with the vehicle.
- Operate with extreme caution on slopes and rough terrain. Be familiar with the area before you plow.
- Be aware of immovable objects that could be hidden in the area you are plowing.
- To avoid damage when pushing snow into a pile, reverse direction before raising the plow blade.
- Do not ram the plow blade into piles of snow.
- For best results, set the suspension preload of your ATV / UTV to the stiffest setting.
- To reduce steering effort and increase mobility, set the air pressure of your tires to the maximum pressure specification.
- The plow skids are adjustable. General skid setting is even with the plow wear bar bottom edge, higher settings reduce the chance of rocks and gravel from being collected.
- To increase traction during plow operation, operators can try: Securing weight to the ATV / UTV for additional tire downforce, reducing tire air pressure, or installing tire chains.

 WARNING

TO AVOID SERIOUS INJURY OR DEATH:

- DO NOT EXCEED 5 MPH (8 KMH) WITH BLADE INSTALLED.
- OPERATE WITH EXTREME CAUTION ON SLOPES, STEEP GRADES, AND ROUGH TERRAIN.
- ALLOW NO RIDERS ON BLADE OR ATV / UTV WHILE MOVING OR STATIONARY.
- KEEP BYSTANDERS AWAY FROM THE BLADE OR ATV / UTV WHILE MOVING OR STATIONARY.
- WHEN PUSHING HEAVY MATERIAL, DIRECTION CONTROL MAY BECOME DIFFICULT.
- BEFORE ADJUSTING BLADE: STOP ATV / UTV ENGINE; SET AND LOCK BRAKES; RAISE AND LOCK BLADE IN UP POSITION. DO NOT ATTEMPT TO RAISE BLADE BY HAND; USE THE LIFT MECHANISM ONLY.
- LOWER BLADE TO DOWN POSITION WHEN BLADE AND ATV / UTV ARE NOT IN USE.
- READ BLADE INSTRUCTION SHEETS AND ATV / UTV OWNER'S MANUAL.

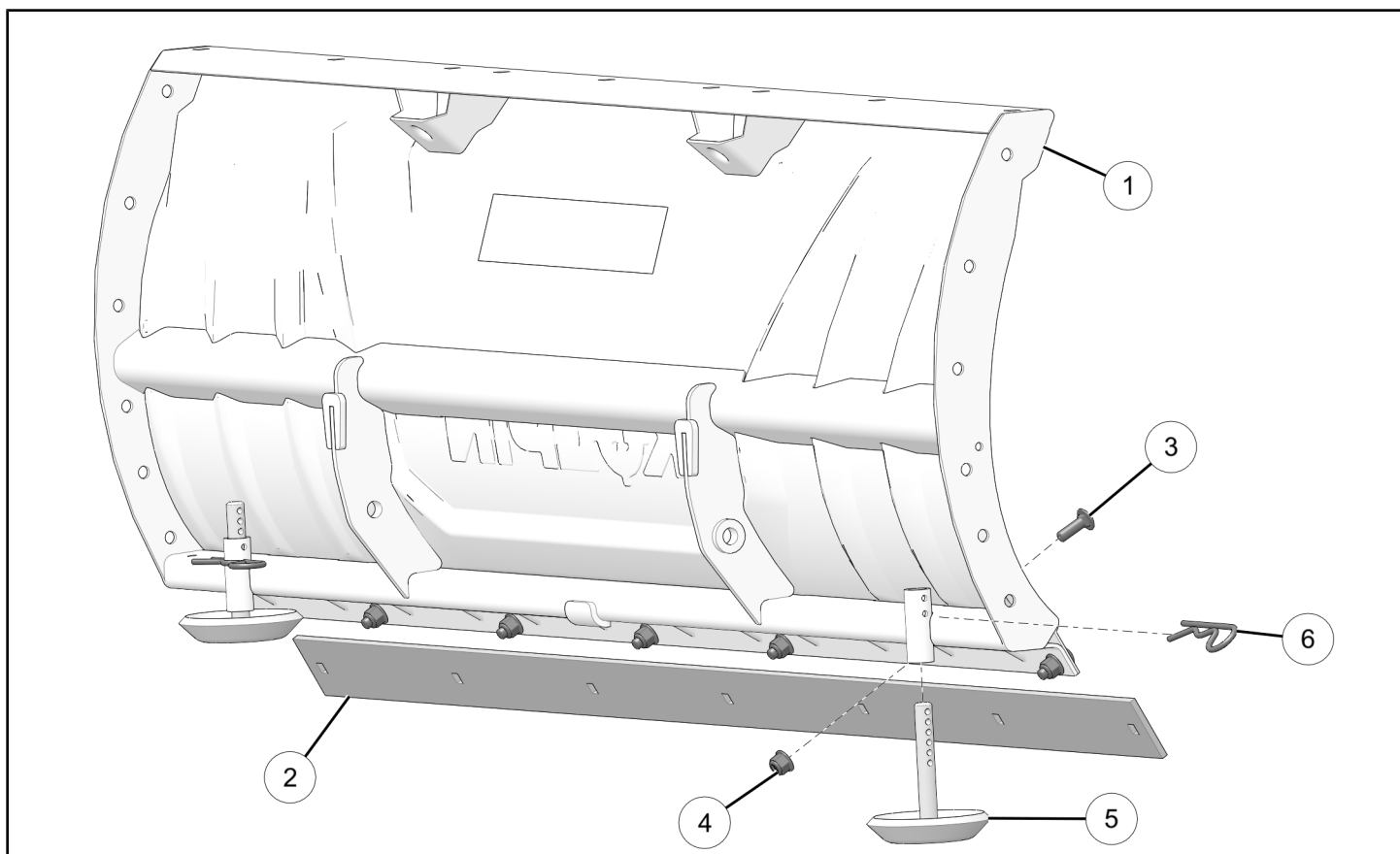
REQUIRED SOLD SEPARATELY

Only parts for installation of the Steel Snow Plow Blade Kit are included. For complete snow plow system installation, additional items are required such as a plow push frame, vehicle plow mount, winch, and winch mount. See www.Kolpin.com for products to complete your plow system.

TOOLS REQUIRED

- Safety Glasses
- Socket Set, Metric
- Torque Wrench
- Wrench Set, Metric

KIT CONTENTS



NOTICE

P/N 31-0048 shown, other kits similar.

STEEL SNOW PLOW BLADE 48 IN P/N 31-0048

REF	QTY	PART DESCRIPTION	PART NUMBER
1	1	Welded Steel Blade, 48 in	n/a
2	1	Wear Bar Kit, 48 in	31-1148
3	7	Carriage Bolt – Zinc Plated, M8 - 1.25 x 25 mm LG	12-0010
4	7	Hex Flange Lock Nut – Zinc Plated, M8 - 1.25 mm	12-0010
5	1	Plow Shoe Kit	31-1255
6	2	Hairpin Cotter Pin – Zinc Plated, 82 mm LG, 4 mm wire diameter	31-1156
7	1	Decal (not shown)	n/a

STEEL SNOW PLOW BLADE 52 IN P/N 31-0052

REF	QTY	PART DESCRIPTION	PART NUMBER
1	1	Welded Steel Blade, 52 in	n/a
2	1	Wear Bar Kit, 52 in	31-1152
3	7	Carriage Bolt – Zinc Plated, M8 - 1.25 x 25 mm LG	12-0010
4	7	Hex Flange Lock Nut – Zinc Plated, M8 - 1.25 mm	12-0010

REF	QTY	PART DESCRIPTION	PART NUMBER
5	1	Plow Shoe Kit	31-1255
6	2	Hairpin Cotter Pin – Zinc Plated, 82 mm LG, 4 mm wire diameter	31-1156
7	1	Decal (not shown)	n/a

STEEL SNOW PLOW BLADE 60 IN P/N 31–0060

REF	QTY	PART DESCRIPTION	PART NUMBER
1	1	Welded Steel Blade, 60 in	n/a
2	1	Wear Bar Kit, 60 in	31-1160
3	9	Carriage Bolt – Zinc Plated, M8 - 1.25 x 25 mm LG	12-0010
4	9	Hex Flange Lock Nut – Zinc Plated, M8 - 1.25 mm	12-0010
5	1	Plow Shoe Kit	31-1255
6	2	Hairpin Cotter Pin – Zinc Plated, 82 mm LG, 4 mm wire diameter	31-1156
7	1	Decal (not shown)	n/a

STEEL SNOW PLOW BLADE 66 IN P/N 31–0066

REF	QTY	PART DESCRIPTION	PART NUMBER
1	1	Welded Steel Blade, 66 in	n/a
2	1	Wear Bar Kit, 66 in	31-1166
3	10	Carriage Bolt – Zinc Plated, M8 - 1.25 x 25 mm LG	12-0010
4	10	Hex Flange Lock Nut – Zinc Plated, M8 - 1.25 mm	12-0010
5	1	Plow Shoe Kit	31-1255
6	2	Hairpin Cotter Pin – Zinc Plated, 82 mm LG, 4 mm wire diameter	31-1156
7	1	Decal (not shown)	n/a

STEEL SNOW PLOW BLADE 72 IN P/N 31–0072

REF	QTY	PART DESCRIPTION	PART NUMBER
1	1	Welded Steel Blade, 72 in	n/a
2	1	Wear Bar Kit, 72 in	31-1172
3	8	Carriage Bolt – Zinc Plated, M8 - 1.25 x 25 mm LG	12-0010
4	8	Hex Flange Lock Nut – Zinc Plated, M8 - 1.25 mm	12-0010
5	1	Plow Shoe Kit	31-1255
6	2	Hairpin Cotter Pin – Zinc Plated, 82 mm LG, 4 mm wire diameter	31-1156
7	1	Decal (not shown)	n/a

OPTIONAL ACCESSORIES

- *Snow Plow Blade Wings*, P/N 31-0010
- *Heavy Duty Blade Wear Bar Kit – 48 in*, P/N 31-1248
- *Heavy Duty Blade Wear Bar Kit – 52 in*, P/N 31-1252
- *Heavy Duty Blade Wear Bar Kit – 60 in*, P/N 31-1260
- *Heavy Duty Blade Wear Bar Kit – 66 in*, P/N 31-1266
- *Heavy Duty Blade Wear Bar Kit – 72 in*, P/N 31-1272
- *Universal Blade Flap*, P/N 10-0190
- *Plow Marker Kit*, P/N 10-0145

OPERATION

The blade assembly allows for quality snow moving capacity and snow roll-over characteristics. Additionally, this blade will handle light to medium-duty summer landscape work.

NOTICE

The wear bar cutting edge is double-sided. When bottom side wears thin, flip the bar over and use the top side for extended cutting edge life.

WARRANTY



TWO YEAR LIMITED WARRANTY

For the period of two (2) years from the purchase date, Kolpin will replace for the original purchaser, free of charge, any part or parts found upon examination by Kolpin to be defective in material, workmanship, or both.

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