



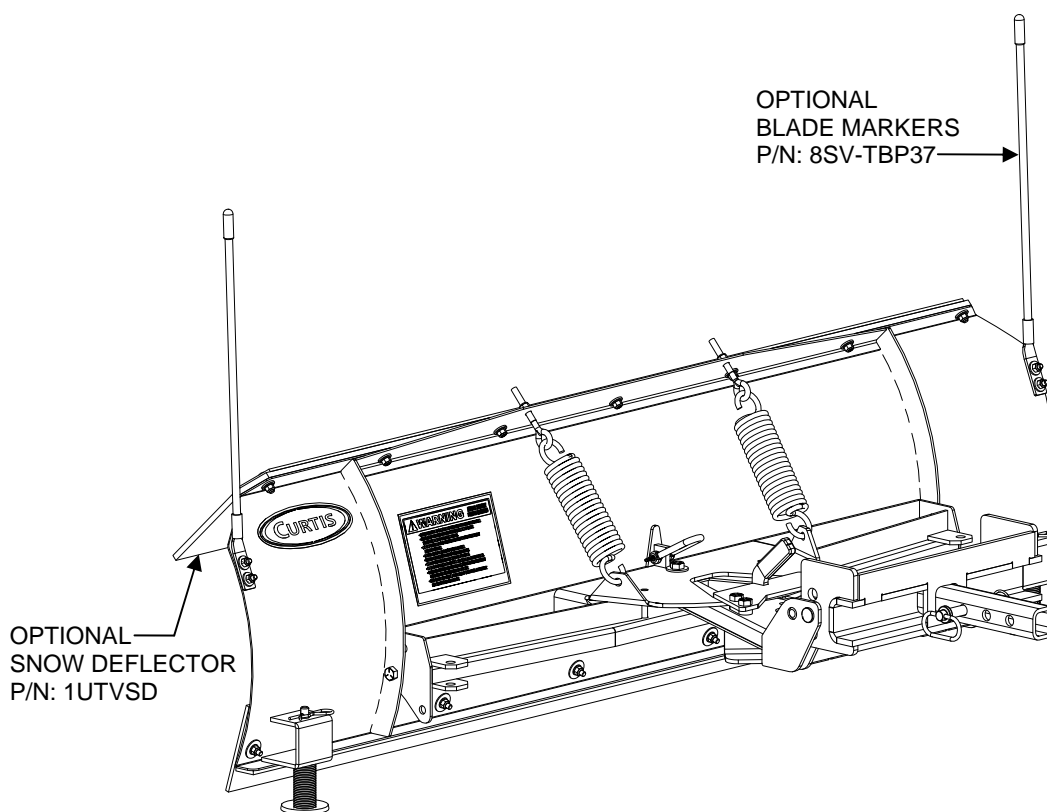
## UTV UNIVERSAL Plow Kit 6' Wide Snow Plow (Winch Lift) (p/n: 1UTVPW)

The contents of this envelope are the property of the owner. Leave with the owner when installation is complete.

**These instructions are valid only for the Plow Kit. Please see separate instructions for installation of the required Mount Kit. This plow requires a winch kit installed on the vehicle – Not sold by Curtis. Both the winch and mount kits need to be installed prior to installing the plow kit.**

**Note: Front Heavy Duty Springs or Heavy Duty Spring Damper Assembly are required if plow is installed.**

**Approximate Installation Time: 1.5 Hours**



**! WARNING** Do not attempt to install or operate this plow until you read and understand all warnings and instructions in this manual or on the plow. Failure to read all warnings and instructions could lead to serious injury or death.

**ADDED WEIGHT NOTICE**

Curtis Cabs, blades and general accessories add additional weight to the base vehicle. All Curtis accessory weights are listed in product brochures. Deduct the accessory's total weight from the vehicle's rated capacity and never exceed the vehicle's rated capacity including driver and passenger.

Rev. 1, 10/16/2015

p/n: IM-1UTVPW

## SAFETY INFORMATION:

**⚠ WARNING:** Cabs, blades, and general accessories add additional weight to the base vehicle. Deduct the accessory's total weight from the vehicle's rated capacity including driver and passenger. Never operate the vehicle outside of its rated weight capacity.

**⚠ WARNING: Serious injury or death:**

- Never stand or ride on the plow assembly.
- Never operate the plow near pets or other people.
- Never leave the vehicle running unattended with plow attached.
- Never plow or carry plow at high speeds.
- Never clean or perform maintenance with plow raised.
- Never clean or service with plow in tripped condition.
- Never dislodge an obstruction with any part of the body.
- This attachment affects the handling performance.
- Before starting installation, park RTV in a flat area, ensure parking brake is engaged, and engine is turned off.
- It is required that you purchase a synthetic winch rope from your winch manufacturer for use with winch activated snow plows. A steel winch rope will fray and can potentially cause injury.

### HELPFUL REMINDERS:

- A. Check carton contents prior to beginning installation.
- B. Work in an organized area large enough to fit vehicle and plow.
- C. Have the required tools ready to speed up the installation time.
- D. Have a helper available to help move heavy parts and assemblies.

### MAINTENANCE NOTES

- **Check and tighten all fasteners in the plow assembly and vehicle mounting after initial use and every 5 hours of use thereafter.**
- **After every 10 hours of use, lubricate all pivot bolts, pins, snap lock latches, and any other moving parts in the plow assembly with all-season grease.**

### TOOLS REQUIRED:

- Set of standard and metric sockets
- Set of standard and metric open end wrenches
- One 3/8" Drive Ratchet
- Pliers
- Dielectric Grease
- AW 32 Plow Oil

## STEP 1: (Trip Frame to Moldboard)

1.1 Locate the steel moldboard, trip frame, (2) 1/2-13 x 2 1/2" bolts, and (2) 1/2-13 Nylock locking nuts. See Fig 1.1. Apply all-season grease to the mating surfaces on the trip frame and moldboard rib. As shown, line up the mounting hole in the trip frame with the mounting hole on the moldboard rib (near the bottom). Install into the mounting holes a 1/2-13 x 2" bolt as shown. Install a 1/2-13 Nylock nut on the back side of the bolt. Repeat installation of hardware for the right side, orienting the bolt head to face away from the center of the moldboard. Tighten the Nylock nuts until all thread slack is removed from the assembly while allowing the trip-frame to rotate freely.

<b>Hardware Used</b>	<b>Qty</b>
1/2-13 x 2 1/2" Bolt	2
1/2-13 Nylock locking nut	2

## STEP 2. (Trip Spring)

2.1 Locate the (2) trip springs, (2) eye bolts, (2) 3/8-16 Nylock hex nuts, and (2) 3/8" washers. See Figure 2.1.

<b>Hardware Used</b>	<b>Qty</b>
3/8-16 Eye Bolts	2
3/8-16 Nylock hex nut	2
3/8" Washer	2

2.2 Hook one end of the trip spring through the lower trip spring mount. See Fig 2.2. Hook the eyebolt on the other end of the spring and insert the threaded section up through the hole in the upper spring mount. Install a 3/8" washer, then a 3/8" Nylock hex nut on the eyebolt. Repeat above for the second trip spring.

2.3 Set the spring tension by tightening the Nylock nut until a sheet of paper can slide between two coils on the spring. Be sure to set tension evenly in both springs.

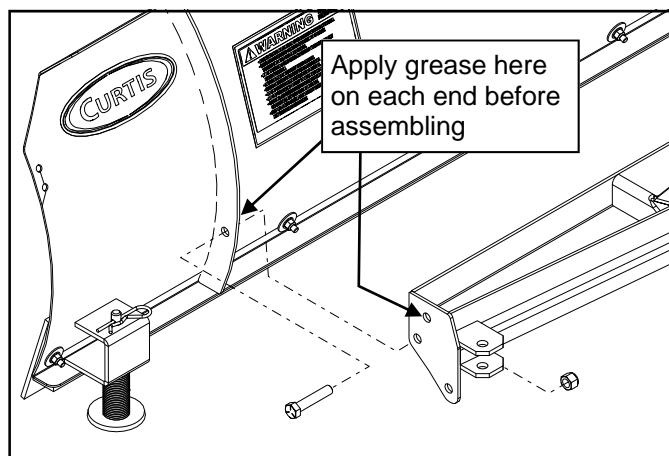


Fig. 1.1 (Trip Frame to Moldboard)

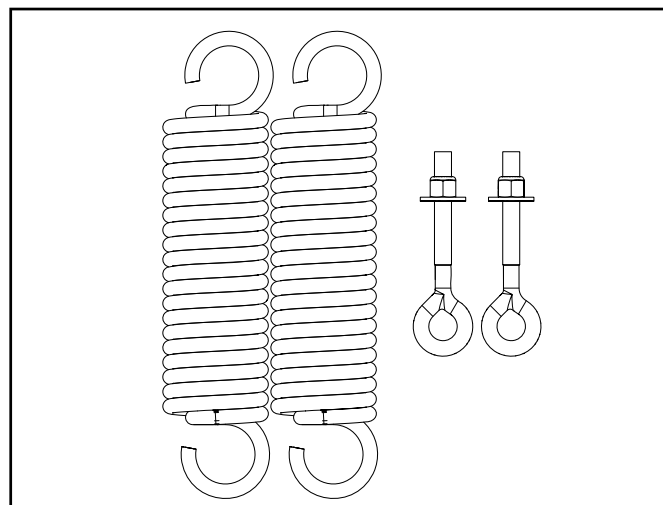


Fig 2.1 (Trip Springs and Hardware)

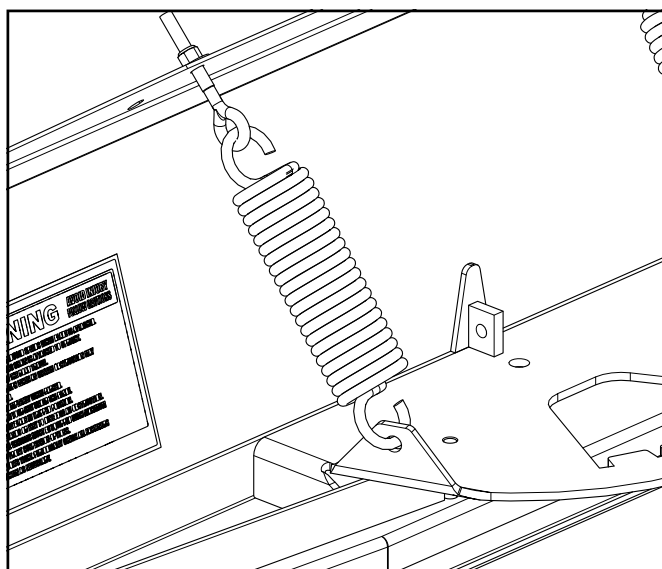


Fig. 2.2 (Trip Spring Installation)

### STEP 3: (A-Frame)

3.1 Locate the A-frame. See Fig 3.1. Apply all-season grease to the top and bottom surface of the A-frame around and in the 1/2" bolt hole. Grease should extend about an inch away from the center of the hole. Also, apply grease to the under side of the angle latch bracket in the area where it will contact the trip frame.

3.2 Slide the A-Frame into the trip frame pocket, aligning the 1/2" bolt holes on both assemblies. See fig. 3.2. Install the 1/2-20 x 3.5" hex head bolt with a 1/2" washer under the head of the bolt. Then thread on the 1/2-20 conical locking nut. Tighten until all slack is removed from the bolt while the A-frame is allowed to rotate freely in the trip frame pocket.

<u>Hardware Used</u>	<u>Qty</u>
1/2-20 x 3.5" bolt	1
1/2" washer	1
1/2-20 conical locking nut	1

3.3 Install the angle latch handle. For easiest installation, be certain A-frame is oriented with the trip frame blade angle slot aligned with the A-frame angle slot in the center position. See Fig 3.3.

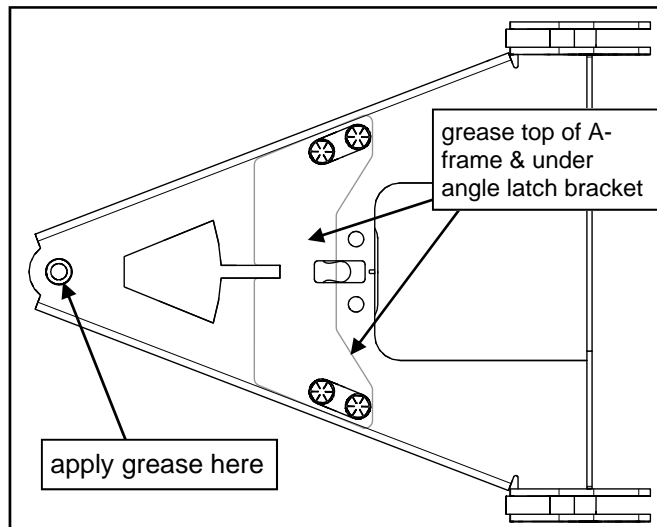


Fig. 3.1 (A-Frame Prep)

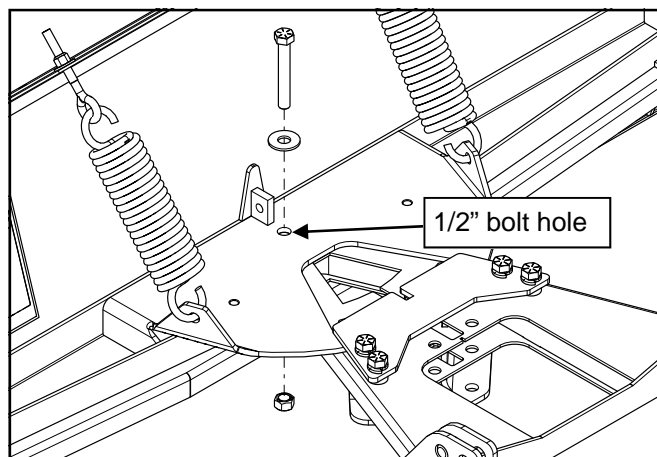


Fig. 3.2 (A-Frame and Trip Frame)

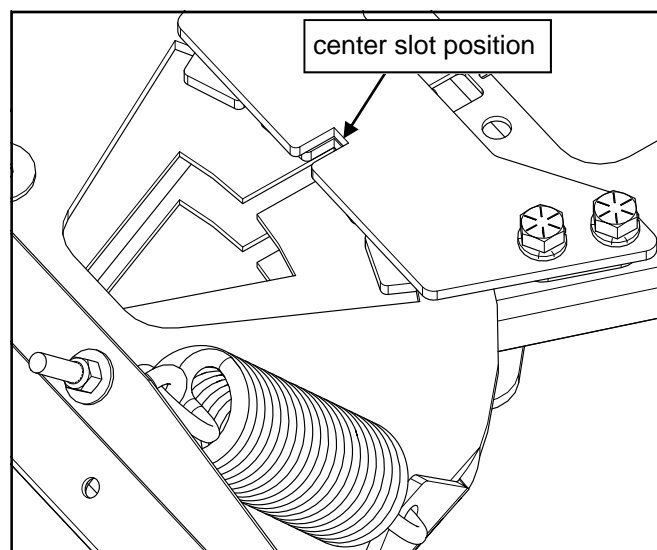


Fig. 3.3 (Angle Latch Handle - Receiving Slots)

### STEP 3: (A-Frame cont'd.)

3.4 Orient the angle latch handle so that the spring and handle point away from the moldboard. See Fig 3.4. Slide angle latch handle and spring into blade angle slot, being certain to capture lower A-frame plate between the angle latch handle roll pins.

3.5 With a pair of pliers, stretch the handle spring away from moldboard and engage the spring hook into the retaining slot of the upper A-frame plate. See Fig 3.5.

3.6 To rotate blade to any of the (5) possible angled positions, pull the handle towards the moldboard (away from the front of the vehicle) until the handle clears the uppermost blade angle slot. Rotate the plow into the desired position and release the handle. Be certain the blade angle handle is re-engaged in the uppermost slot. Wiggle the moldboard to test engagement of the handle.

### STEP 4: (Winch Shackle)

4.1 Straddle the disassembled D Shackle over the vertical lifting hole tab and install the threaded clevis pin. Close the shackle by threading the clevis pin into the threads on the opposite side of the shackle. See Fig. 4.1.

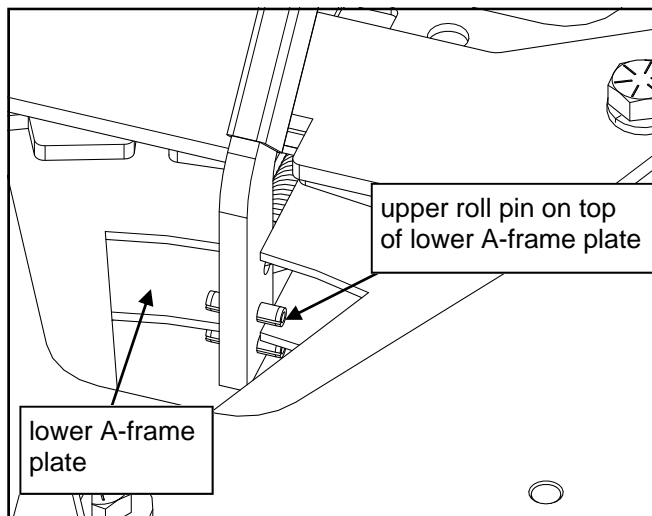


Fig. 3.4 (Angle Latch Handle)

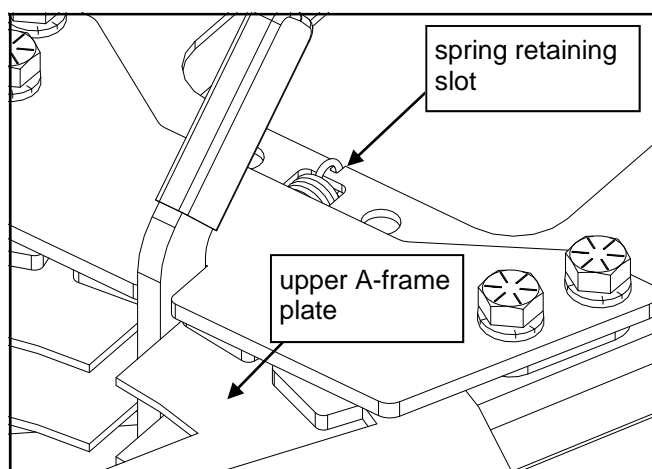


Fig. 3.5 (Angle Latch Handle - Spring)

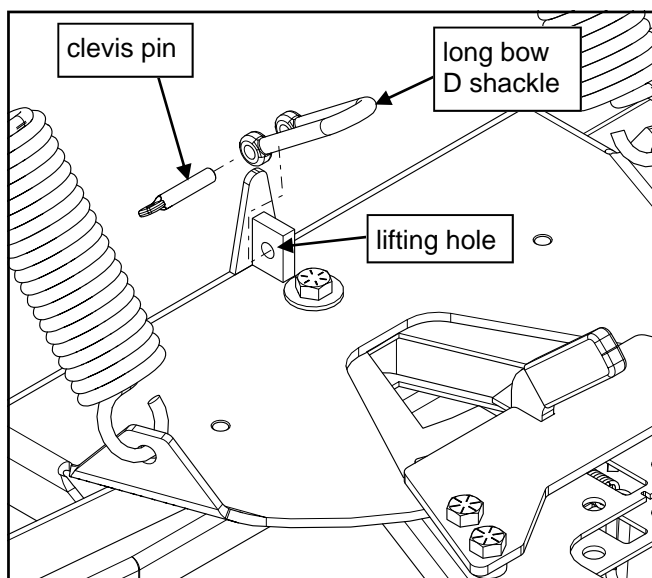


Fig. 4.1 (Winch Shackle)

## Step 5: (Lift Frame into Mount Kit Receiver)

5.1 Apply grease to the stem of the lift frame and the inside of the receiver. See Fig 5.1. Move the lift frame to the receiver of your vehicle so that the stem on the lift frame is lined up with the female end tube of the receiver hitch.

5.2 Push the lift frame into the receiver hitch until the holes align making sure the lift frame clears the bumper, grill and brush guard (if applicable).

5.3 Install pin thru hole on receiver and lift frame stem and secure. See Fig. 5.1.

## STEP 6: (Attach A-Frame to Lift Frame)

6.1 Apply grease to the pivot holes in the rear of the A-Frame and the lower Lift Frame. See Fig. 6.1.

6.2 Align the Tabs of the A-Frame with tabs on the Lift Frame. Three pivot holes are provided on lift frame to accommodate varying vehicle heights. See Fig 6.2.

6.3 Make sure A-Frame is level with the ground and insert  $\frac{3}{4}$ " x 2" long clevis pin into the appropriate hole. Double check for levelness and install cotter pins. See Figures 6.1 and 6.2.

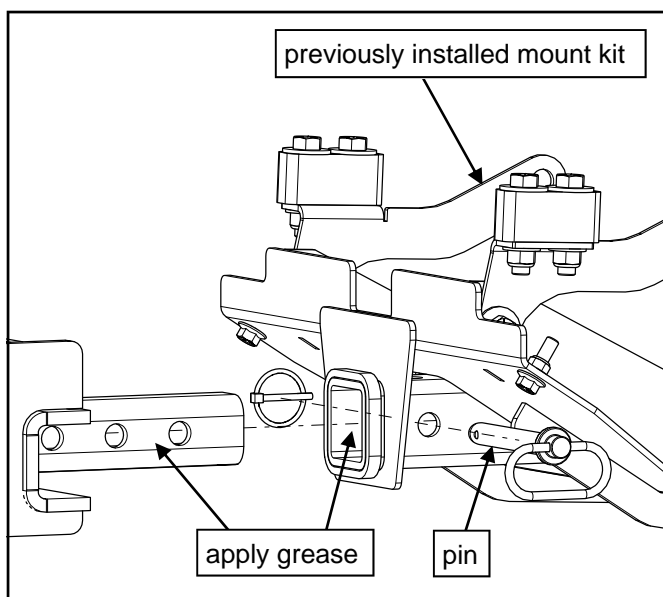


Fig. 5.1 (Lift Frame and Receiver Pin)

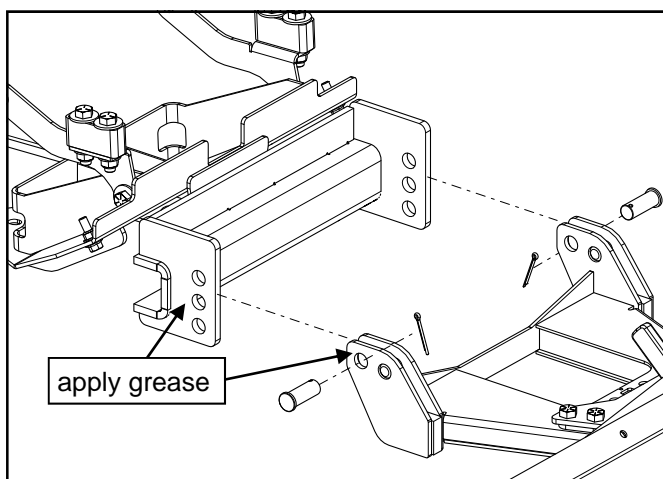


Fig. 6.1 (A-Frame and Lift Frame Mounting Tabs)

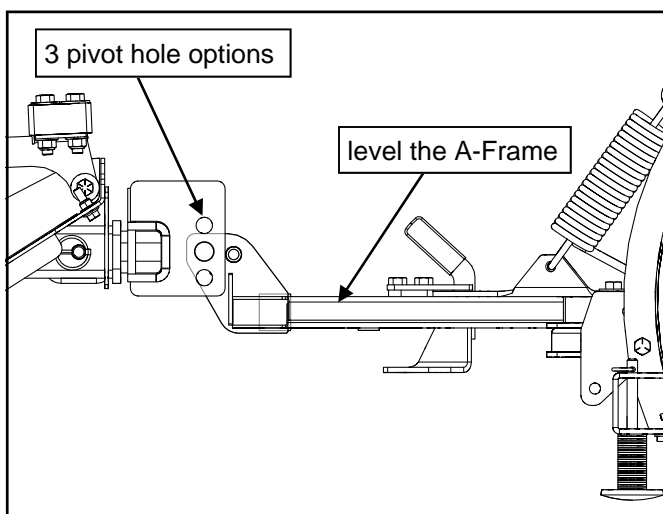


Fig. 6.2 (A-Frame - Level)

## STEP 7: (Winch Cable)

*Caution: When either raising or lowering plow, once the plow is on the ground or against the hard stops let go of the winch button. If you continue to press the winch button, permanent damage to the winch can occur. Please refer to your winch owner's manual for proper winch operation.*

7.1 Extend Winch Cable out from Winch. Allow for enough slack in the cable to easily reach the plow's D shackle. See Fig. 7.1.

7.2 Connect the winch cable's hook onto the shackle. See Fig 7.2.

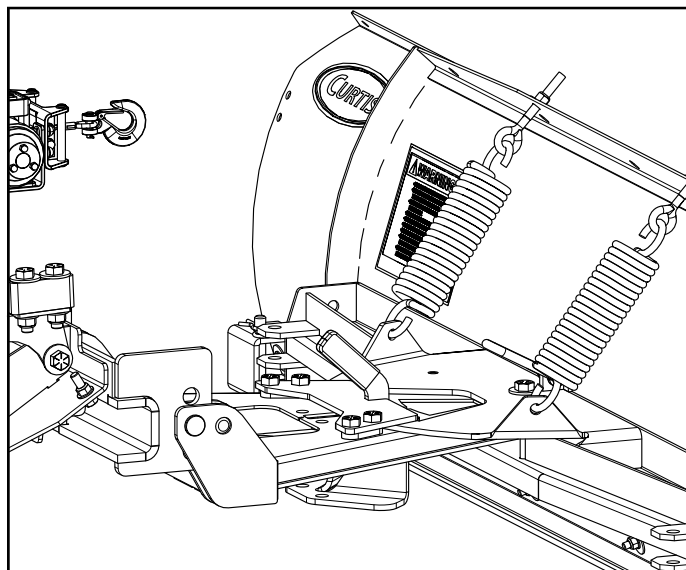


Fig. 7.1 (Winch Cable)

## FINAL NOTES

The plow is ready for use. Keep your vehicle speed to no greater than 5 mph. You should always plow in low gear to prevent damage to your vehicle. Refer to your vehicle's owner manual for 4 wheel drive operation. Always perform scheduled maintenance on your vehicle and plow to ensure proper operation.

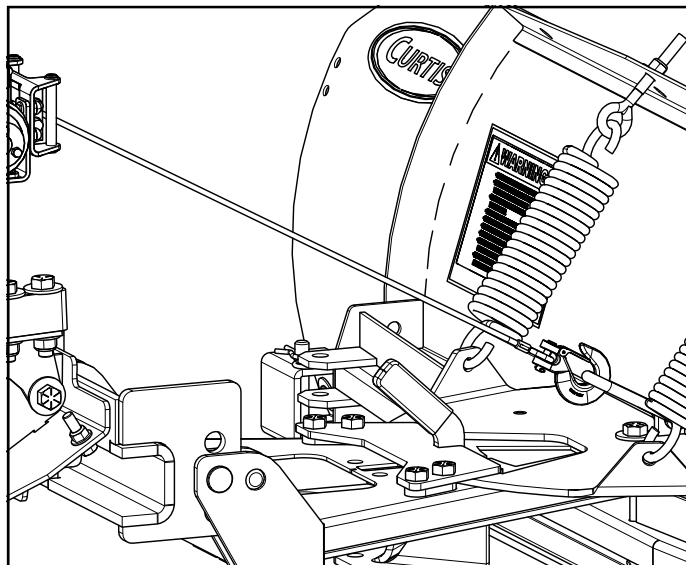
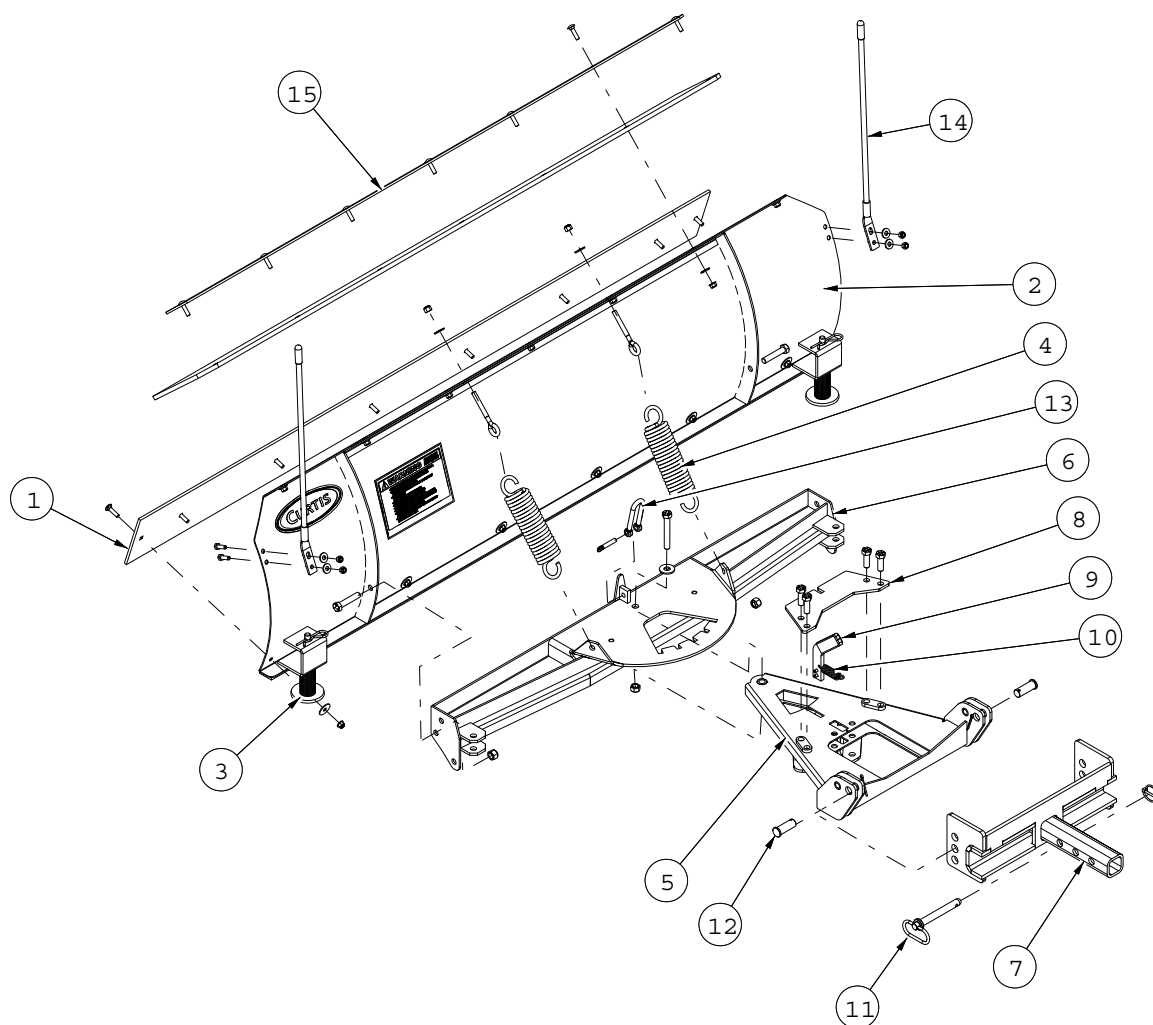


Fig. 7.2 (Winch Cable - Hook to Shackle)

## Utility Vehicle Plow Winch Lift Kit Service Parts



COMPONENTS INCLUDED IN UVP KIT (P/N: 1UTVPW)			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	UTVP-CE	72" X 1/4" X 6" CUTTING EDGE FOR 1UTP	1
2	8SV-KAF039MG-G1	72" PLOW MOLDBOARD ASSY, METALLIC GRAY	1
3	UTV-SHOE	SKID SHOE (W/HARDWARE)-1 ONLY	2
4	KAF25-039SP	PLOW TRIP SPRING, UTP (SINGLE)	2
5	1TBP29LD	A-FRAME ASSY COMPLETE, LD	1
6	8SV-KAF039P8-B5	UTILITY VEHICLE PLOW TRIP FRAME	1
7	8SV-WA-00032	LIFT FRAME WELDMENT, WLP	1
8	8SV-KAF19A-B5	ANGLE LATCH BRACKET, UTILITY PLOW (BLACK)	1
9	KAF25-039P15	ANGLE LATCH HANDLE W/HDWE, UTP	1
10	KAF25-039P6	SPRING FOR ANGLE LATCH HANDLE (COMES W/ KAF25-039P15)	1
11	1SM1P2	HITCH PIN, 5/8" X 5" LONG, WITH LINCH PIN	1
12	1CP111	3/4" X 2" CLEVIS PIN W/COTTER PIN	2
13	UTP-DSHACK	SELF-LOCKING CLEVIS PIN W/ LONG BOW D SHACKLE	1
14	8SV-TBP37	BLADE MARKER KIT (SET OF 2) (OPTIONAL)	1
15	1UTVSD	UVP SNOW DEFLECTOR KIT (OPTIONAL)	1
16	HWK-00016	HARDWARE KIT, UVP WINCH LIFT	1

*Note: Quantities listed represent the qty. of each item in the original plow kit. For service part orders, unless otherwise stated, parts are sold in qty. of (1). If you require more than (1) of an item, please specify qty. when ordering.*



## Utility Vehicle Plow Winch Lift Kit Service Parts

### HARDWARE INCLUDED IN HWK-00016

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	71-00-0037	WASHER, FT, USS, 3/8X1 0.085, S, -, ZY	2
2	72-01-0027	NUT, H, NIL, 3/8-16, -, S, -, ZY	2
3	79-01-0001	MISC, EB, NS, 3/8-16, 2.5, S, -, ZY	2
4	71-00-0038	WASHER, FT, USS, 1/2X1.375 0.11, S, -, ZY	1
5	70-00-0110	SCREW, HH, CS, 1/2-20, 3.5, S, 8, ZY	1
6	72-02-0026	NUT, H, DTL, 1/2-20, -, S, -, ZY	1
7	70-00-0111	SCREW, HH, CS, 1/2-13, 2.5, S, 5, ZY	2
8	72-01-0069	NUT, H, NIL, 1/2-13, 0.587, S, B, ZY	2
9	UTP-DSHACK	SELF-LOCKING CLEVIS PIN W/ LONG BOW D SHACKLE	1
10	1SM1P2	HITCH PIN, 5/8" X 5" LONG, WITH LINCH PIN	1
11	1CP111	3/4" X 2" CLEVIS PIN W/ COTTER PIN	2

### HARDWARE INSTALLED ON KAF25-039P7MG (NOT AVAILABLE AS SERVICE PARTS. OBTAIN LOCALLY)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	70-69-0002	SCREW, CB, -, 5/16-18, 1.25, S, 5, ZB	8
2	71-02-0007	WASHER, FT, FNR, 5/16 X 1.25, -, S, -, ZB	8
3	72-21-0007	NUT, HF, NIL, 5/16-18, -, S, G, ZB	8
4	71-00-0059	WASHER, FT, USS, 1/2X1.375, 0.11, S, -, ZC	52
5	79-12-0013	COTTER PIN, 5/32, 1, 3.25, -, ZC	2

### HARDWARE INSTALLED ON 1TBP29LD (NOT AVAILABLE AS SERVICE PARTS. OBTAIN LOCALLY)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	70-00-0112	SCREW, HH, CS, 1/2-13, 1.5, S, 8, ZY	4
2	71-15-0089	WASHER, LK, SLT, 1/2 X .879, 0.125, S, -, ZY	4