Table of Contents Heavy Duty 'V' Blade

'V' Blade Assembly	2
Power Angling Assembly	
'V' plow flares	14
Third Spring Installation	17

Important note:

Lift frames for this specific blade are listed below:

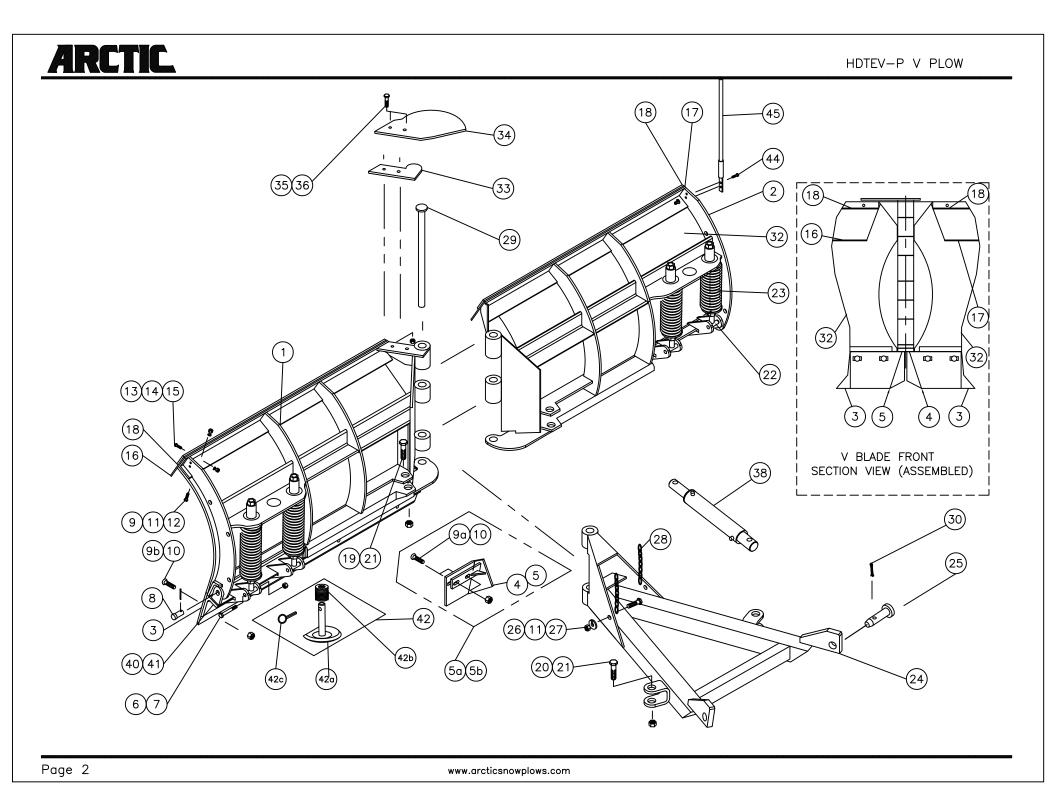
Lift Frame QLII-HI-DLC-GA Lift Frame QLIII-HI-DLC-GA Lift Frame QLIV-HI-DLC-GA

For more information about the lift frame, check under Lift frame section.



ARCTIC HDVTE-P

Arctic Heavy Duty 'V' Trip Edge Blade 96" & 108"





Warning

Do not exceed GVWR or GAWR, including blade and ballast. The rating label is found on the driver side vehicle door corners.

Lower the blade when the vehicle is parked. Temperature changes could change hydraulic pressure, causing the blade to drop unexpectedly or damaging hydraulic components. Failure to do this can result in serious personal injury.

Servicing the trip springs without special tools and knowledge could result in personal injury. See Arctic authorized dealer for service.

Inspect snowplow components and bolts for wear and damage when mounting or removing snowplow and before traveling.

Keep hands and feet clear of the blade, A-frame and cylinders when mounting or removing the snowplow. Moving or falling assemblies could cause personal injury. Never use a finger to check an alignment. Moving or falling assemblies could crush your finger.

Do not stand between the vehicle and the blade or within 10' of a moving blade. A moving or falling blade could cause personal injury.

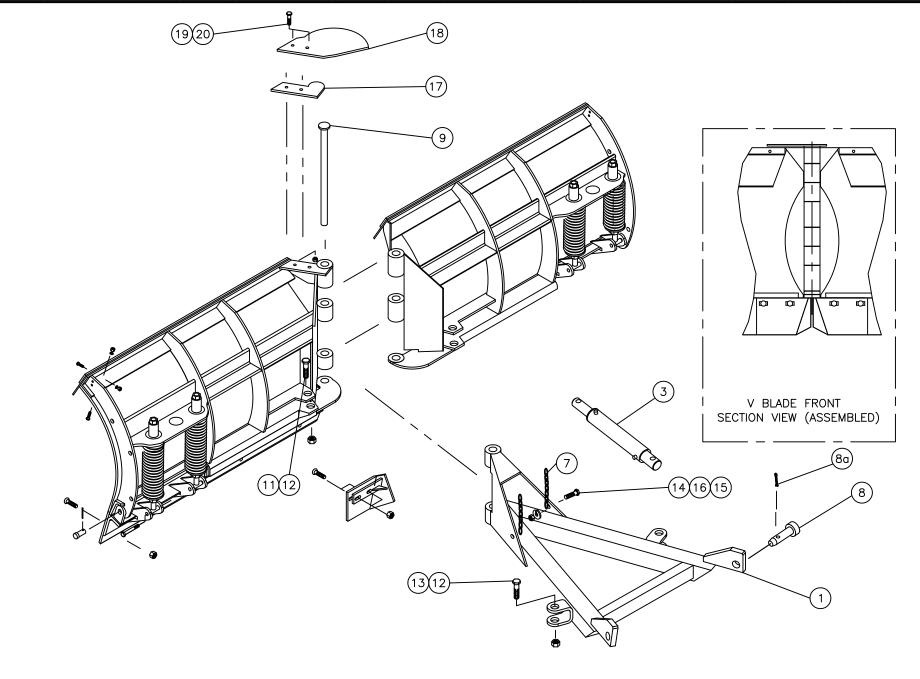
To prevent accidental movement of the blade, always turn the control OFF whenever the snowplow is not in use.

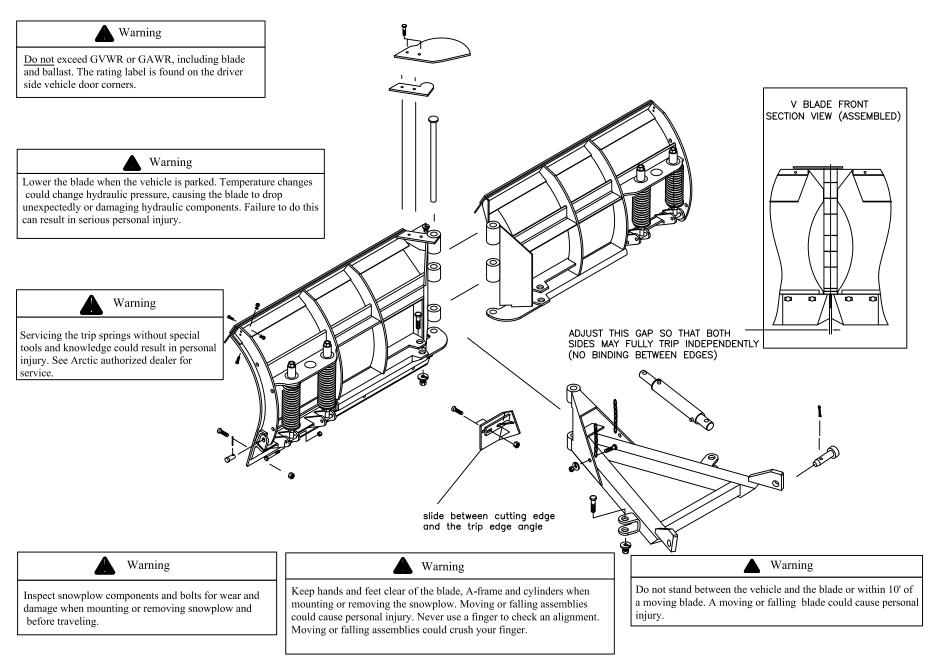
T .		A-frame and Hardware	
Item	Description	Part Number	Quantity
1	52810-M-GA	Driver Side Blade Section Assembly (96")	1
	53013-M-GA	Driver Side Blade Section Assembly (108")	1
	52810-SS	Driver Side Blade Section Assembly (96") for Stainless Steel Galvanized blade	1
	53013-SS	Driver Side Blade Section Assembly (108") for Stainless Steel Galvanized blade	1
2	52809-M-GA	Curb Side Blade Section Assembly (96")	1
	53012-M-GA	Curb Side Blade Section Assembly (108")	1
	52809-SS	Curb Side Blade Section Assembly (96") for Stainless Steel Galvanized blade	1
	53012-SS	Curb Side Blade Section Assembly (108") for Stainless Steel Galvanized blade	1
3	53350-В	Cutting Edge (96") Top Punch	2
	53351-B	Cutting Edge (108") Top Punch	2
	53154-B	Cutting Edge (96") Center Punch	2
	53155-B	Cutting Edge (108") Center Punch	2
4	53347-01-В	Centre Cutting Edge Driver Side (Top Punch)	1
	53163-01-B	Centre Cutting Edge Driver Side (Center Punch)	1
5	53347-02-В	Centre Cutting Edge Curb Side (Top Pun ch)	1
	53163-02-В	Centre Cutting Edge Curb Side (Center Punch)	1
5a	53169-M	Centre Cutting Edge Kit (Center Punch) (includes driver and curb side cutting edge & hardware)	1
5b	53347-M	Centre Cutting Edge Kit (Top Punch)) (includes driver and curb side cutting edge & hardware)	1
6	HH-00540-004	¹ /2" Nylon Nut	4
7	53015-N	¹ / ₂ "UNF Bolt 5" long	4
8	52442-M	3/4 x 2-1/8" Rivet c/w Cotter Pin	8
9	HH-00971-136	¹ / ₂ " x 1-1/2" Carriage Bolt	8
9a	HH-00971-140	¹ / ₂ " x 2-1/2" Carriage Bolt	4
9b	HH-00971-137G8	¹ / ₂ " x 1-3/4" Carriage Bolt	12
10	HH-00340-003	¹ / ₂ " NC Nylon Nut	12
11	HH-00457-001	¹ /2" Lock Washer	8
12	HH-00294-005	¹ / ₂ " NC Nut	8
13	HH-00971-044	5/16" x1-1/4"Carriage Bolt	8
14	HH-00457-007	5/16" Lock Washer	8
15	HH-00294-002	5/16" NC Nut	8

96" H		ip Edge Blade 96" (52808-M-GA), 108" (53020-N blade(52808-SS), 108" HDVTE Stainless Steel bla	
T4	Description	A-frame and Hardware	
Item	Description	Part Number	Quantit
16	52864-01-D	Poly Deflector Driver Side (96" V-blade)	1
	53009-01-D	Poly Deflector Driver Side (108" V-blade)	1
17	52864-02-D	Poly Deflector Curb Side (96" V-blade)	1
	53009-02-D	Poly Deflector Curb Side (108" V-blade)	1
18	52865-D	Strap (96" V-blade)	2
	53011-D	Strap (108" V-blade)	2
19	53546-N	3/4" x 3-1/2" Bolt	2
20	HH-00972-152	3/4" x 3-1/4" Bolt	2
21	HH-00973-007	3/4" Hex Nut Nylon Insert	4
22	52440-C	Spring Tube Assembly (without spring)	4
23	52441-M	Trip Edge Spring	4
24	52854-C-GA	A-Frame	1
25	53325-A	Spreader Pin	2
26	HH-00972-090	¹ / ₂ " x 1-1/2" Bolt	2
27	HH-00460-002	1/2" Nut	2
28	55018-M	Chain	2
29	52860-В	Pivot Pin	1
30	HH-00020-164	Cotter Pin	2
32	52841-01-D	Poly Blade Skin DS (96") orange	1
-	52841-01-D-PLAT	Poly Blade Skin DS (96") gray	
	52841-02-D	Poly Blade Skin CS (96") orange	1
	52841-02-D-PLAT	Poly Blade Skin CS (96") gray	
	52842-01-D	Poly Blade Skin DS (108") orange	1
	52842-01-D-PLAT	Poly Blade Skin DS (108") gray	
	52842-02-D	Poly Blade Skin CS (108") orange	1
	52842-02-D-PLAT	Poly Blade Skin CS (108") gray	
	52841-01-SS	Stainless Steel Skin DS (96")	1
	52841-02-SS	Stainless Steel Skin CS (96")	1
	52842-01-SS	Stainless Steel Skin DS (108")	1
	52842-02-SS	Stainless Steel Skin CS (108")	1
33	52869-M-GA	Top Pin Spacer	1
34	52837-M-GA	Pin Retainer	1
35	HH-00293-051	Bolt 3/8" - 16 x 1 ½"	2
36	HH-00340-001	3/8" Hex nut	2
38	52873-NRS	Cylinder 1 ¹ / ₂ " x 2 1/4" x 9"	2
<u>39</u>	HH-00233-001	1/8" Grease Fitting	6
40	52843-01-D-GA	Base Angle DS (96" V-blade)	1
.0	52844-01-D-GA	Base Angle DS (108" V-blade)	1
41	52843-02-D-GA	Base Angle CS (96" V-blade)	1

	5 5	Trip Edge Blade 96" (52808-M-GA), 108" (53020-M-	, , ,
96″ H	DVIE Stainless Stee	el blade(52808-SS), 108" HDVTE Stainless Steel blad	de (53020-SS)
	1	A-frame and Hardware	
Item	Description	Part Number	Quantity
	52844-02-D-GA	Base Angle CS (108" V-blade)	1
42	53322-M-GA	Trip Edge Shoe Assembly	2
42a	53322-A-GA	Trip Edge Shoe	1
42b	55017-N	1" Adjustment Washers	15
42c	50040-A	Quick Release Pin	1
44	GB001	Guide Bolt Assembly	4
45	50999-В	Blade Guide	2
46	53634-N	Roll of trim Guard (for Stainless Steel Blade)	2
47	53600-0006	(06PN) 3/8"-16x1 18-8 Carriage bolt	8
48	53600-0007	(WLX3) 3/8" lock-washer	8
49	53600-0008	(NXF3) 3/8" Hex Nut	8
50	HH-00271-006	(WUX3) 3/8" Flat-washer	8

Arctic Heavy Duty 'V' Trip Edge Poly Blade & A-Frame Installation







Warning

Do not exceed GVWR or GAWR, including blade and ballast. The rating label is found on the driver side vehicle door corners.

Lower the blade when the vehicle is parked. Temperature changes could change hydraulic pressure, causing the blade to drop unexpectedly or damaging hydraulic components. Failure to do this can result in serious personal injury.

Servicing the trip springs without special tools and knowledge could result in personal injury. See Arctic authorized dealer for service.

Inspect snowplow components and bolts for wear and damage when mounting or removing snowplow and before traveling.

Keep hands and feet clear of the blade, A-frame and cylinders when mounting or removing the snowplow. Moving or falling assemblies could cause personal injury. Never use a finger to check an alignment. Moving or falling assemblies could crush your finger.

Do not stand between the vehicle and the blade or within 10' of a moving blade. A moving or falling blade could cause personal injury.

To prevent accidental movement of the blade, always turn the control OFF whenever the snowplow is not in use.



Arctic HDVTE Poly Blade & A frame			
Item	Part Number	Description	Quantity
1	52854-C-GA	A-frame Galvanized	1
2	HH-00233-001	1/8 Grease Fitting	1
3	52873-NRS	Cylinder 1 ¹ / ₂ " dia rod x 2" dia piston x 9" stroke	2
4	52874-M	V blade Hardware Kit	1
7	55018-M	Chain	2
8	53325-A	Spreader Pin	2
8a	HH-00020-164	Cotter pin	2
9	52860-В	Pivot Pin	1
11	53546-N	3/4-16x3.1/2 Hex Head Cap Screw gr 8	2
12	HH-00973-007	3/4" Hex Nut Nylon Insert	4
13	HH-00972-152	3/4-16x3.1/4 Hex Head Cap Screw	2
14	HH-00972-090	1/2-20x1.1/2 Hex Head Cap Screw	2
15	HH-00460-002	1/2-20 Hex Nut	2
16	HH-00457-001	1/2 Lock washer	2
17	52869-M-GA	Top Pin Spacer Galvanized	1
18	52837-M-GA	Pin Retainer Galvanized	1
19	HH-00293-051	Bolt 3/8" - 16 x 1 ½"	2
20	HH-00340-001	3/8" Hex nut	2
22	52811-M-GA	"A"-Frame Assembly (include cylinders, chain, bolts etc)	1

Installation Instructions

- 1. Lay left section of the blade and right section of the blade down on the floor. Align hinges of both sections. Attach A-frame (1) to blade by inserting pivot pin (9) through the hole in the A frame tube and blade cross members. Secure the pivot pin (9) with pin spacer (17) and pin retainer (18) using 3/8" bolt (19), and nut (20).
- 2. <u>Apply grease</u> at 6 places on the A frame and blade grease fittings. Grease should be reapplied periodically.
- 3. Secure cylinders (3) with bolts to the blade using 3/4" bolt (11), and 3/4" lock nut (12).

To attach snowplow to vehicle mount, proceed as follows:

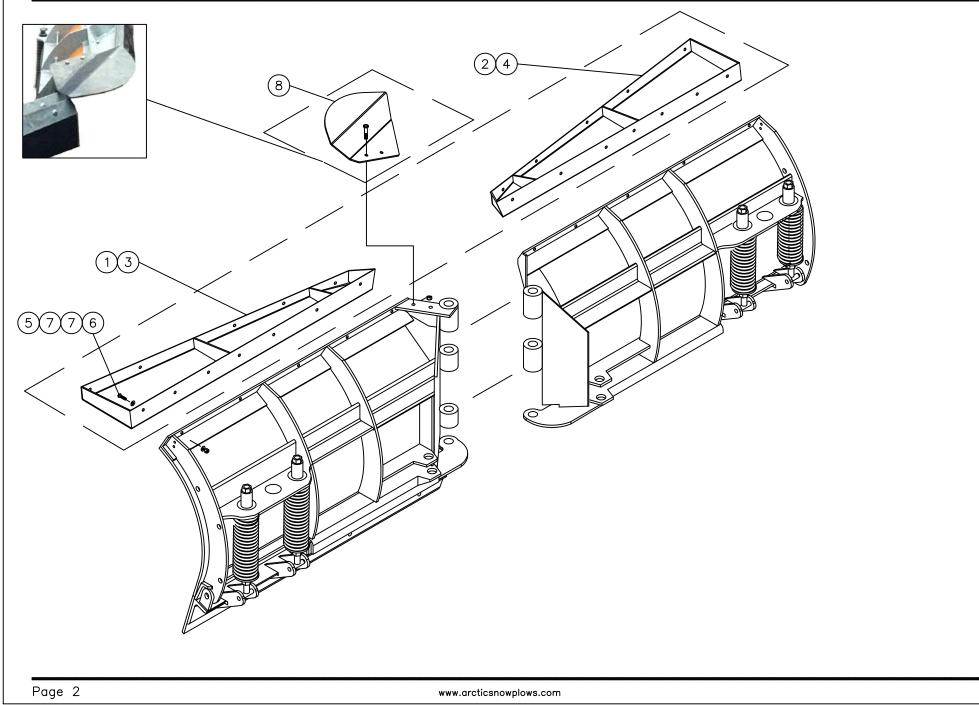
- 1. Position the vehicle such that the A-frame (1) lugs and vehicle mount are in vertical alignment.
- 2. Hook the chains (7) into the lift channel slots.
- 3. Actuate lift cylinder slowly. Blade will remain on the ground, but the A-frame (1) will



begin to rise. Continue until the A-frame (1) lug holes align with the holes on the vehicle mount.

- 4. Insert the spreader pins (8) through the holes to attach the A-frame (1) to the vehicle mount. Secure attachment by inserting cotter pins into the spreader pins (8).
- 5. With the joystick in the DOWN position, push the lift channel downward as far as possible and adjust the chain so there are two links of slack.
- 6. Check the cutting edge clearance. Use a combination of spacer washers until ¹/₂" clearance between the ground and cutting edge is achieved. Secure shoes by inserting the lynch pins into the shoe.

'V' Plow Flares 53547-96-M & 53548-108-M



Warning

Do not exceed the gross vehicle weight ratings (GAWR), front gross axle weight rating (FGAWR) specified on the Safety Compliance Certification Label located in the driver's side door opening.

V Blade Flare Assembly 53547-96-M & 53548-108-M			
Item	Part	Description	Quantity
1	53547-01-B	Flare, Driver Side 96"	1
2	53548-01-B	Flare, Driver Side 108"	1
3	53547-02-В	Flare, Curb Side 96"	1
4	53548-02-В	Flare, Curb Side 108"	1
5	HH-00293-028	5/16-18x1 HHCS	14
6	HH-00340-017	5/16-18 Locknut	14
7	HH-00341-003	5/16 Flatwasher	28
8	53612-M	Centar Deflector	1

Installation Instruction

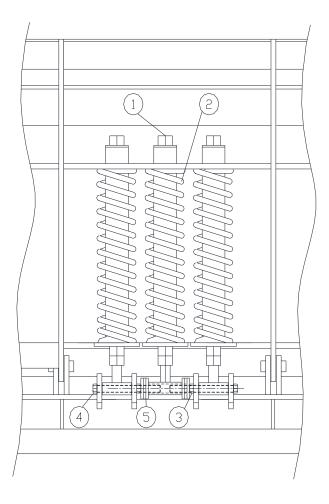
- 1 Remove the existing deflectors from the blade and hardware. Using 5/16" bolt (5), flatwashers (7) and locknuts (6) install the flares on the both sides of blade.
- 2. Drill 5/16" holes through the top angle of the blade using 5/16" holes in the flares as guides. After drilling holes secure the flares with 5/16 bolts, flatwashes and locknuts.
- 3. Install removed deflectors on the both flares using existing hardware.



Third Spring Installation Kit 53014-M & Spring Installation Tool 53031-M

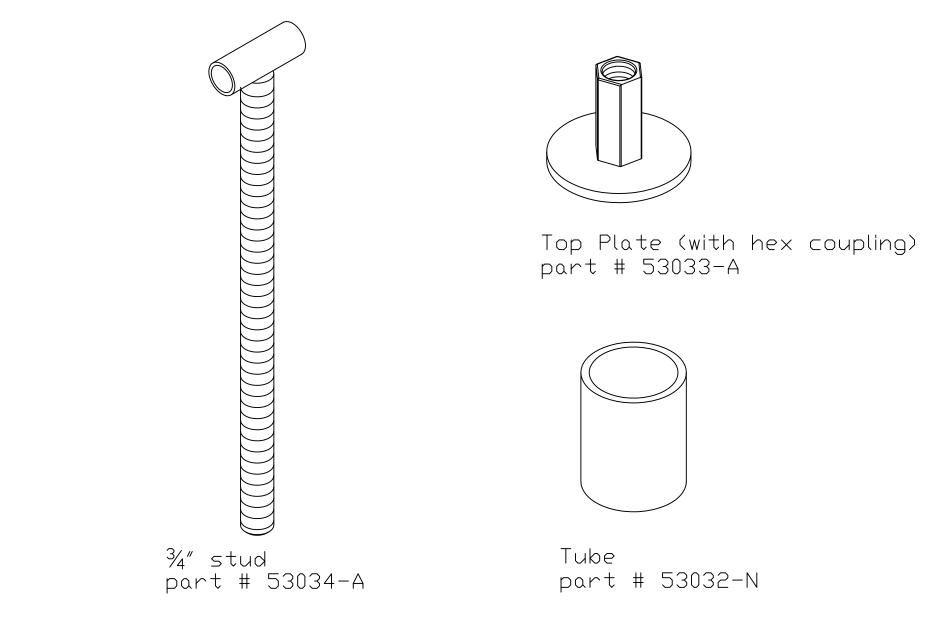


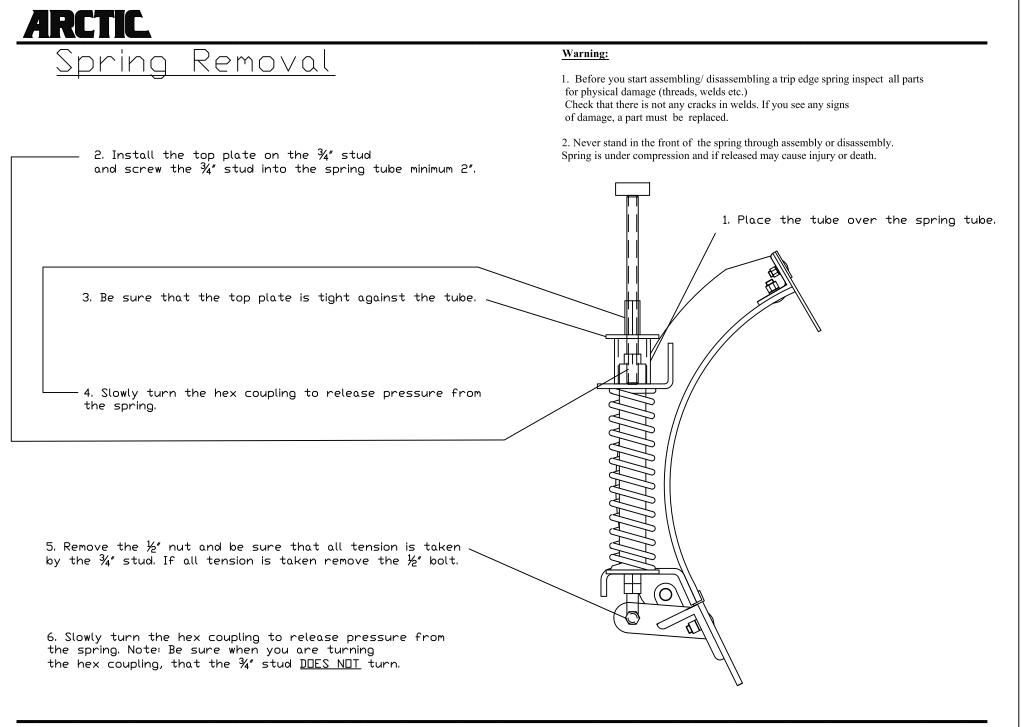
Third Spring Installation Kit			
Item	Part Number	Description	Quantity
1	52440-C	Spring Tube assembly	2
2	52441-M	Trip Edged spring	2
3	HH-00540-004	¹ /2" UNF Locknut	4
4	53015-N	¹ / ₂ " UNF Bolt 5" long	4
5	HH-00341-006	Washer, ¹ /2"	12



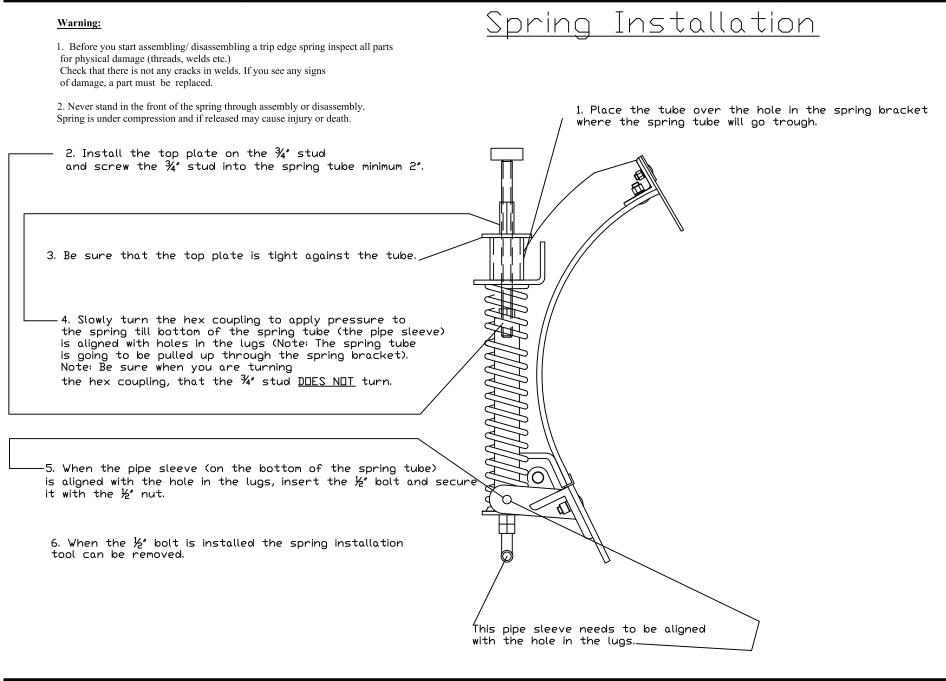
Third Spring Installation

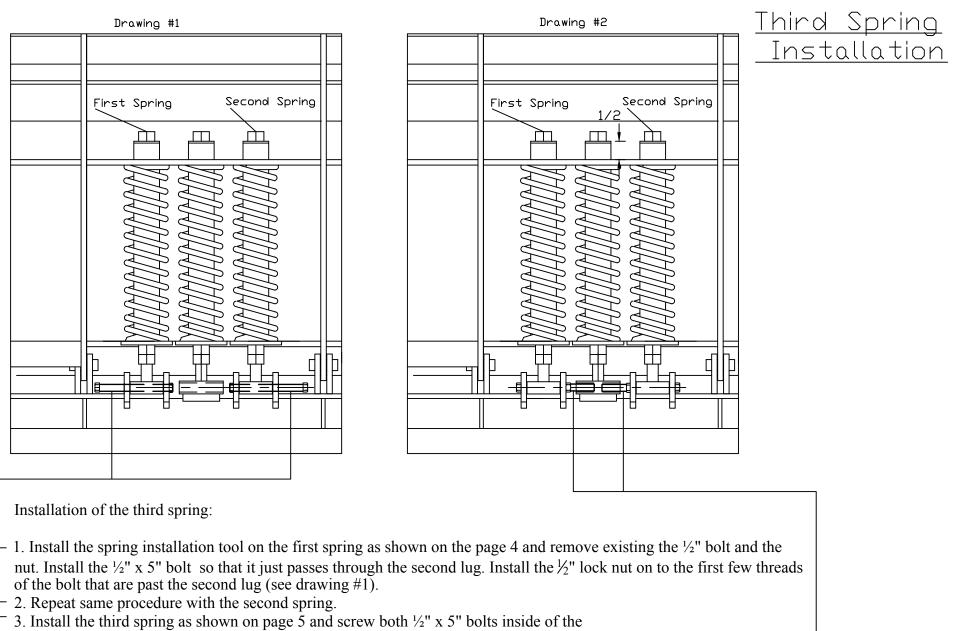
Trip Edge Spring installation tool 53031-M





Third Spring Installation





spring tube (pipe sleeve drawing #2).