## **ARCTIC HDFVTE-P**

# Arctic Heavy Duty Flared '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.

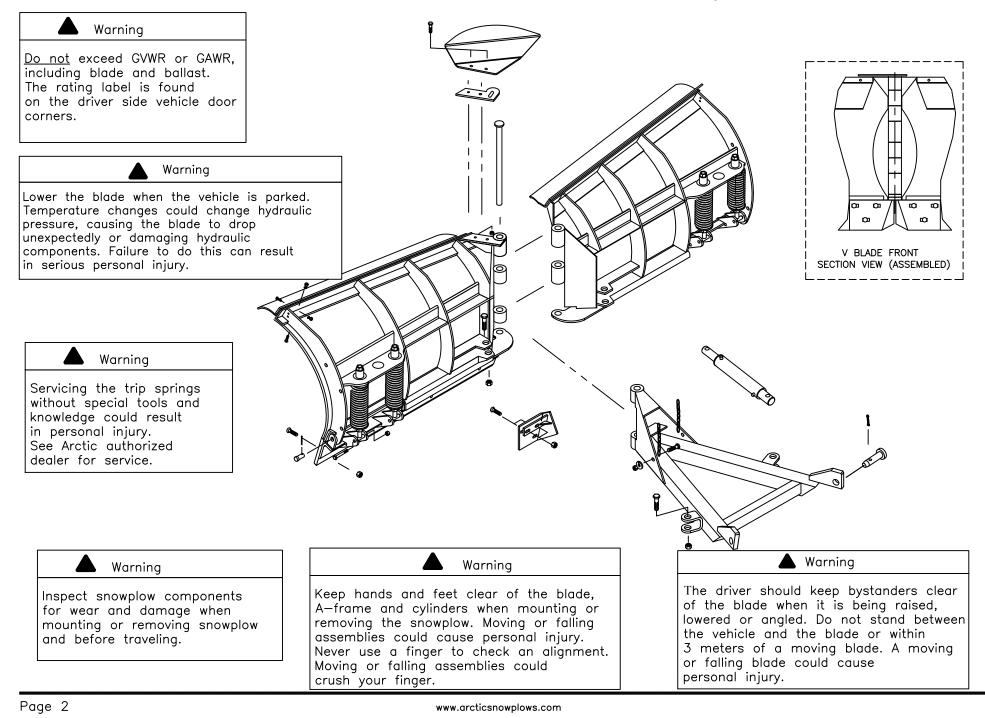
Servicing the trip springs without special tools and knowledge could result in personal injury. See Arctic authorized dealer for service.

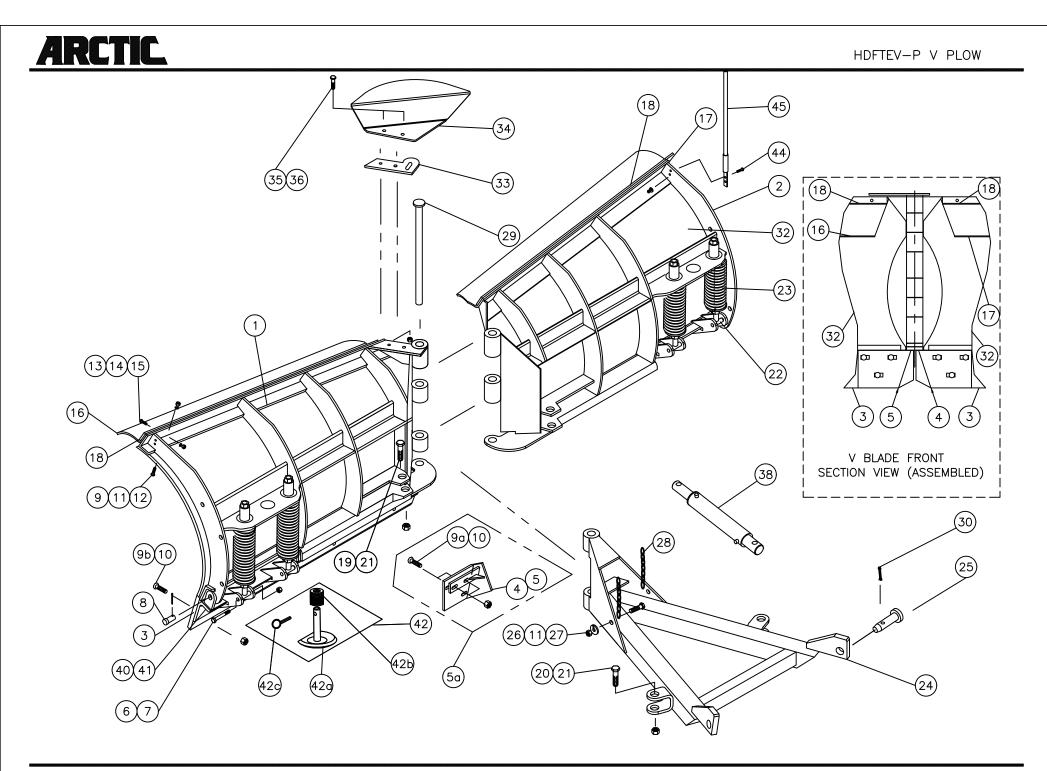
Inspect snowplow components and bolts for wear and damage when mounting or removing snowplow and before traveling.

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.







108" blade (53722-M), A-frame and HardwareItemDescriptionPart NumberQuantity					
Item	Description		Quantity		
1	52720-M	Driver Side Blade Section Assembly (96")	1		
	53723-M	Driver Side Blade Section Assembly (108")	1		
2	53721-M	Curb Side Blade Section Assembly (96")	1		
	53724-M	Curb Side Blade Section Assembly (108")	1		
3	53350-В	Steel Cutting Edge (96") Top Punch 1/2 " x 6"	2		
	53351-В	Steel Cutting Edge (108") Top Punch 1/2" x 6"	2		
4	53347-01-В	Centre Cutting Edge Driver Side (Top Punch)	1		
5	53347-02-В	Centre Cutting Edge Curb Side (Top Punch)	1		
5a	53347-M	Centre Cutting Edge Kit (Top Punch) (includes	1		
		driver and curb side cutting edge & hardware)			
6	HH-00540-004	<sup>1</sup> / <sub>2</sub> " Nylon Nut	4		
7	53015-N	<sup>1</sup> / <sub>2</sub> "UNF Bolt 5" long	4		
8	52442-M	3/4 x 2-1/8" Rivet c/w Cotter Pin	8		
9	HH-00971-136	<sup>1</sup> / <sub>2</sub> " x 1-1/2" Carriage Bolt	8		
9a	HH-00971-140	<sup>1</sup> / <sub>2</sub> " x 2-1/2" Carriage Bolt	4		
9b	HH-00971-137G8	<sup>1</sup> / <sub>2</sub> " x 1-3/4" Carriage Bolt	12		
10	НН-00340-003	<sup>1</sup> / <sub>2</sub> " NC Nylon Nut	12		
11	HH-00457-001	<sup>1</sup> / <sub>2</sub> " Lock Washer	8		
12	HH-00294-005	<sup>1</sup> / <sub>2</sub> " 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		
16	53747-01-CR	Curved Deflector Driver Side (96" Flared V-blade)	1		
	53748-01-CR	Curved Deflector Driver Side (108"Flared V-blade)	1		
17	53747-02-CR	Curved Deflector Curb Side (96" Flared V-blade)	1		
	53748-02-CR	Curved Deflector Curb Side (108" Flared V-blade)	1		
18	53737-В	Strap Driver Side (96" Flared V-blade)	1		
	53738-В	Strap Driver Side (108" Flared V-blade)	1		
	53742-В	Strap Curb Side (96" Flared V-blade)	1		
	53743-В	Strap Curb Side (108" Flared V-blade)	1		
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-С	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	<sup>1</sup> / <sub>2</sub> " x 1-1/2" Bolt	2		



Arctic Heavy Duty Flared 'V' Trip Edge Blade 96" (53719-M), 108" blade (53722-M), A-frame and Hardware					
Item	Description	Part Number	Quantity		
25	53325-A	Spreader Pin	2		
26	HH-00972-090	<sup>1</sup> / <sub>2</sub> " 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	53749-D	Flared Poly Blade Skin Driver & Curb Side (96")	1		
	53750-D	Flared poly Blade Skin Driver & Curb Side (108")	1		
33	53746-B	Top Plate Spacer (Flared V-blade)	2		
34	53745-B	Center Deflector (Flared V-blade)	1		
35	HH-00293-053	Bolt 3/8" - 16 x 2"	2		
36	HH-00340-001	3/8" Nylon Insert	2		
38	52873-NRS	Cylinder 1 <sup>1</sup> / <sub>2</sub> " x 2 1/4" x 9"	2		
39	HH-00233-001	1/8" Grease Fitting	6		
40	52843-01-D-GA	Base Angle DS (96" V-blade)	1		
	52844-01-D-GA	Base Angle DS (108" V-blade)	1		
41	52843-02-D-GA	Base Angle CS (96" V-blade)	1		
	52844-02-D-GA	Base Angle CS (108" V-blade)	1		
42	53322-M	Trip Edge Shoe Assembly	2		
42a	53322-A-G	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-B	Blade Guide	2		

#### **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 (24) to blade by inserting pivot pin (29) through the hole in the A frame tube and blade cross members. Secure the pivot pin (29) with pin spacer (33) and pin retainer (34) using 3/8" bolt (35), and nut (36).
- 2. <u>Apply grease</u> at 6 places on the A frame and blade grease fittings. Grease should be reapplied periodically.
- 3. Secure cylinders (38) with bolts to the blade using 3/4" bolt (19), and 3/4" lock nut (21).

To attach snowplow to vehicle mount, proceed as follows:

1. Position the vehicle such that the A-frame (24) lugs and vehicle mount are in vertical



alignment.

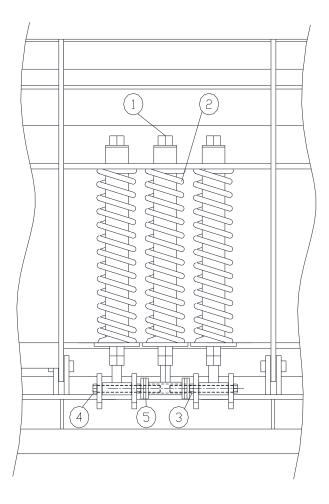
- 2. Hook the chains (28) into the lift channel slots.
- 3. Actuate lift cylinder slowly. Blade will remain on the ground, but the A-frame (24) will begin to rise. Continue until the A-frame (24) lug holes align with the holes on the vehicle mount.
- 4. Insert the spreader pins (25) through the holes to attach the A-frame (24) to the vehicle mount. Secure attachment by inserting cotter pins (30) into the spreader pins (25).
- 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 <sup>1</sup>/<sub>2</sub>" clearance between the ground and cutting edge is achieved. Secure shoes by inserting the lynch pins into the shoe.

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



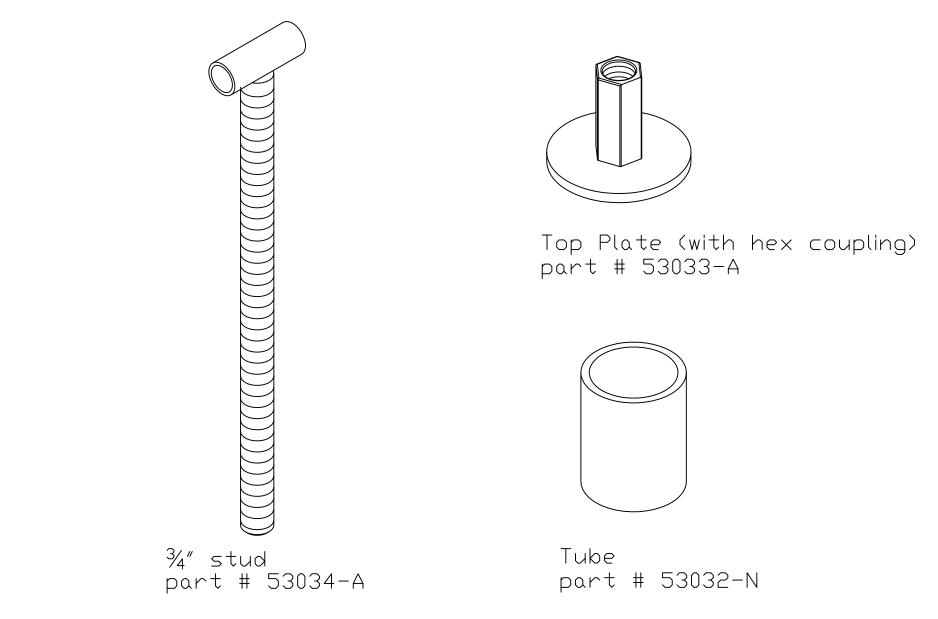
Third Spring Installation Kit						
Item	Part Number	Description	Quantity			
1	52440-C	Spring Tube assembly	2			
2	52441-M	Trip Edged spring	2			
3	HH-00540-004	<sup>1</sup> /2" UNF Locknut	4			
4	53015-N	<sup>1</sup> / <sub>2</sub> " UNF Bolt 5" long	4			
5	HH-00341-006	Washer, <sup>1</sup> /2"	12			

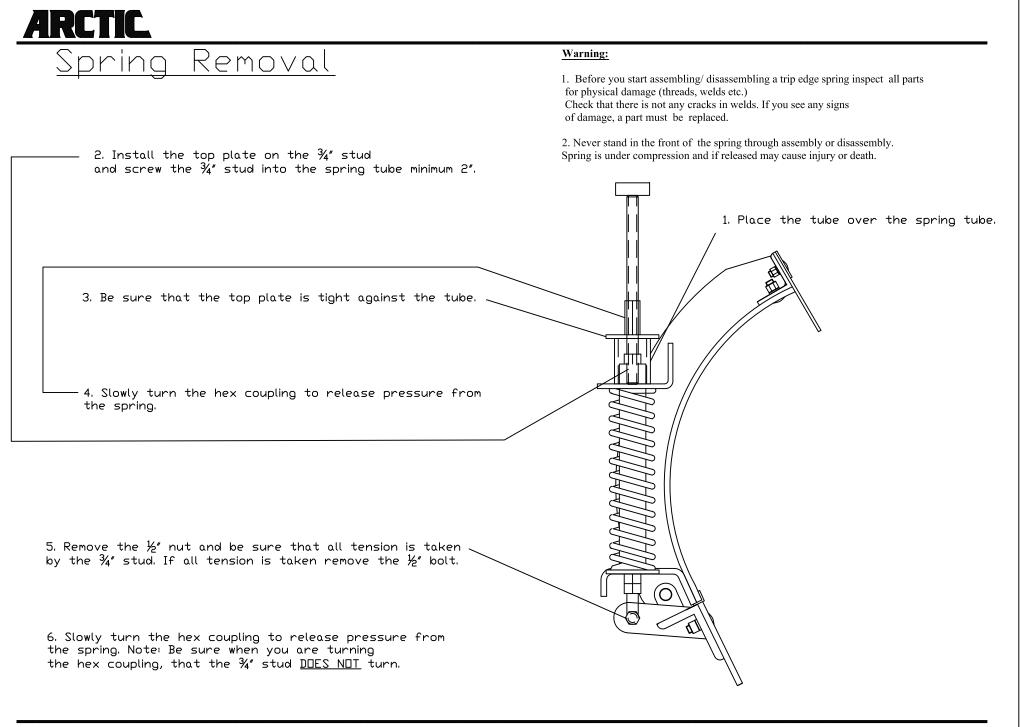


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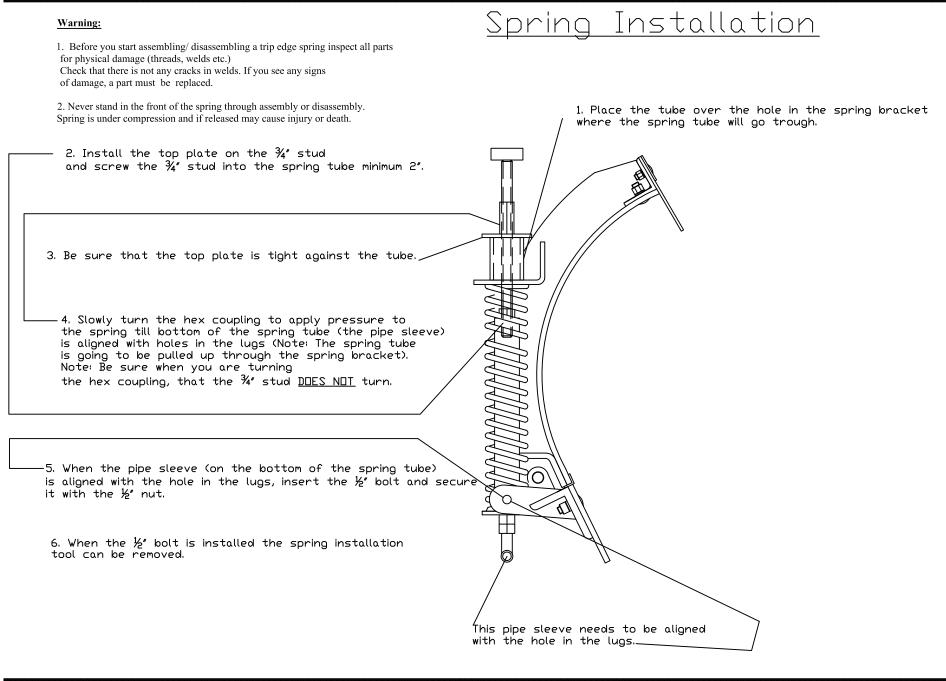
Third Spring Installation

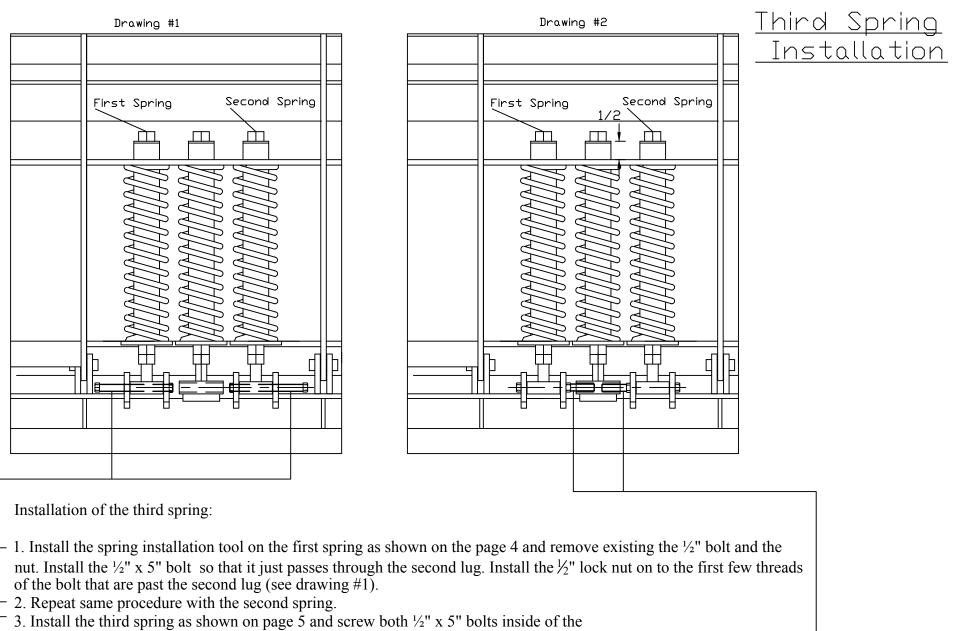
## Trip Edge Spring installation tool 53031-M





Third Spring Installation





spring tube (pipe sleeve drawing #2).