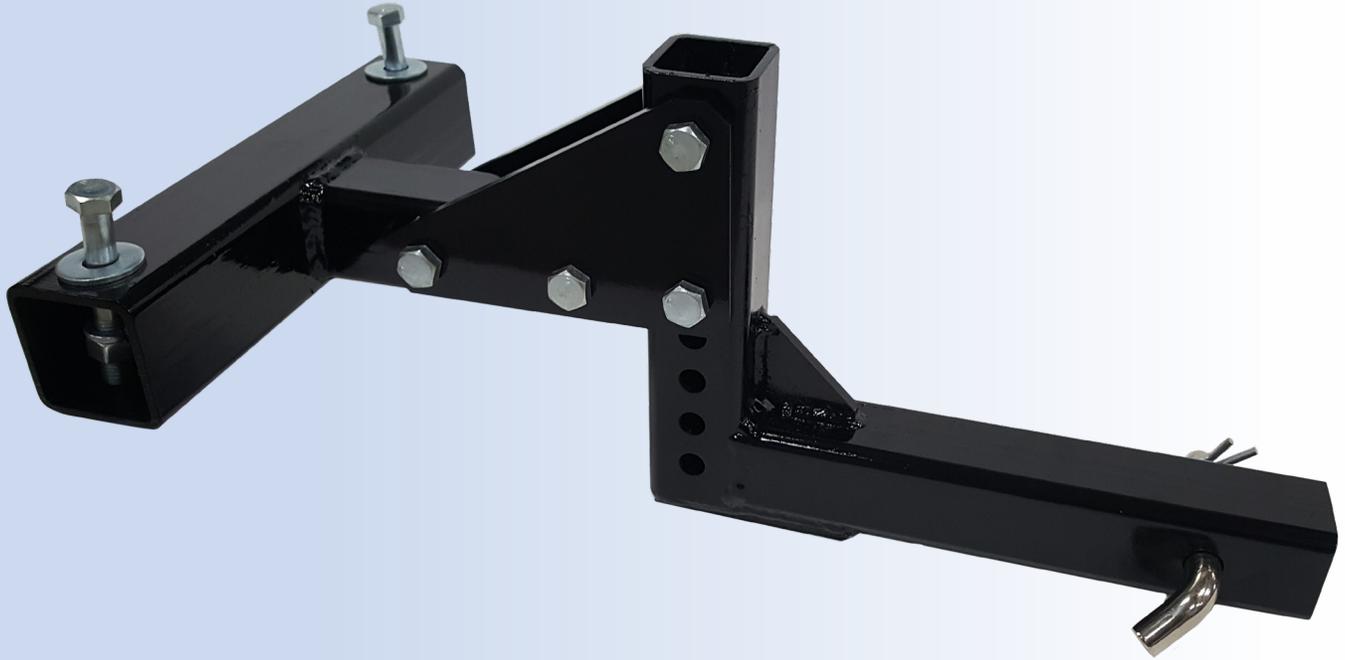


Assembly Instructions



2" Receiver Mount Bracket

 **Bluestreak**equipment MAGNETICS
APPLICATION DRIVEN DESIGN

Bluestreak Equipment
1645 Hwy #3, Delhi, Ontario, Canada N4B 2W6

What's in the Box



Part #1 – Steel Clamp Plate - 2pcs

Part #2 – Hitch Insert - 1pc

Part #3 – Adjustment Bracket - 1pc

Part #4 – 0.5" x 3.5" Bolt w/ washer, lock washer and nut - 2pcs

Part #5 – 0.5" x 3.5" Bolt w/ lock washer and nut - 4pcs

Part #6 – 0.625" Bent Pin w/clip - 1pc

Step 1

Check to confirm that your receiver hitch is rated for the weight of the magnetic sweeper you intend to hang from it with the 2" Receiver Mount Bracket. To do this select the magnetic sweeper you are installing from the tables at the end of this document, and verify that your receiver hitch meets the recommended Minimum Tongue Weight Rating (lbs) Required. The Minimum Rating considers the weight of the magnetic sweeper, the weight of the Hanging Bracket (A, B, or C) and the extended distance the Receiver Mount Bracket provides. An additional Factor of safety has also been included.



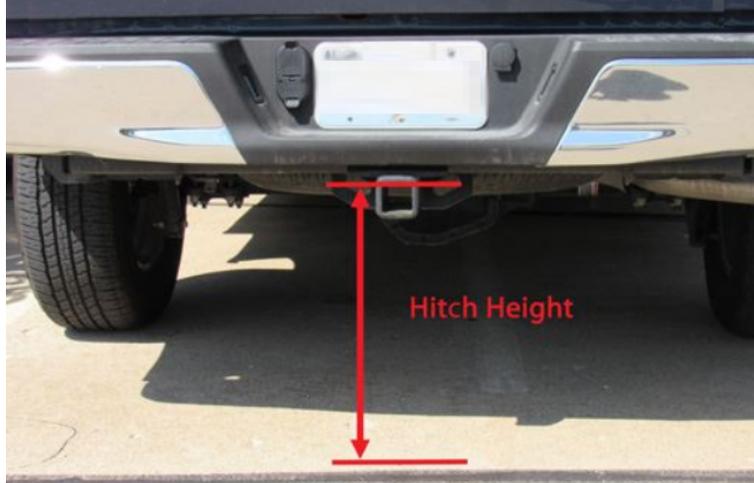
Hanging Sweeper Model	Size	Hanging Bracket Model	Hanging Sweeper Weight (lbs)	Hanging Bracket Weight (lbs)	2" inch Receiver Mount Bracket Weight (Lbs) (if used)	Total Weight (lbs)	Minimum Tongue Weight Rating (lbs) Required	Minimum Receiver Hitch Class Required
Aether	62	C	230.3	49	20	299.3	499	Class III
Aether	74	C	264.3	49	20	333.3	556	Class IV
Aether	86	C	297.3	49	20	366.3	611	Class IV
Aether	98	C	330.3	49	20	399.3	666	Class IV
Alpha	86	C	309.3	49	20	378.3	631	Class IV
Alpha	98	C	342.3	49	20	411.3	686	Class IV
Eiger 3x3	38	A	55.0	30	20	105.0	175	Class II
Eiger 3x3	50	A	69.5	30	20	119.5	199	Class II
Eiger 3x3	62	B	83.4	42	20	145.4	242	Class II
Eiger 3x3	74	B	97.8	42	20	159.8	266	Class II
Eiger 3x3	86	B	112.2	42	20	174.2	290	Class II
Eiger 3x3	98	B	126.2	42	20	188.2	314	Class II
Eiger 4.5x4.5	38	A	124.4	30	20	174.4	291	Class II
Eiger 4.5x4.5	50	A	158.4	30	20	208.4	347	Class II
Eiger 4.5x4.5	62	B	191.8	42	20	253.8	423	Class III

In the above example you can see that if an Aether 98 was purchased a Minimum Class IV Hitch with a 666 lb minimum tongue rating is required.

If you are unsure of the rating of your hitch ask your vehicle dealer or consult the hitch manufacturer. Do not install the Receiver Bracket if you are unsure of your Receiver Hitch Rating.

Step 2

Measure the Hitch Height of the Vehicle. A rear or front receiver hitch can be used. Hitch Heights from 11" to 24" are acceptable.

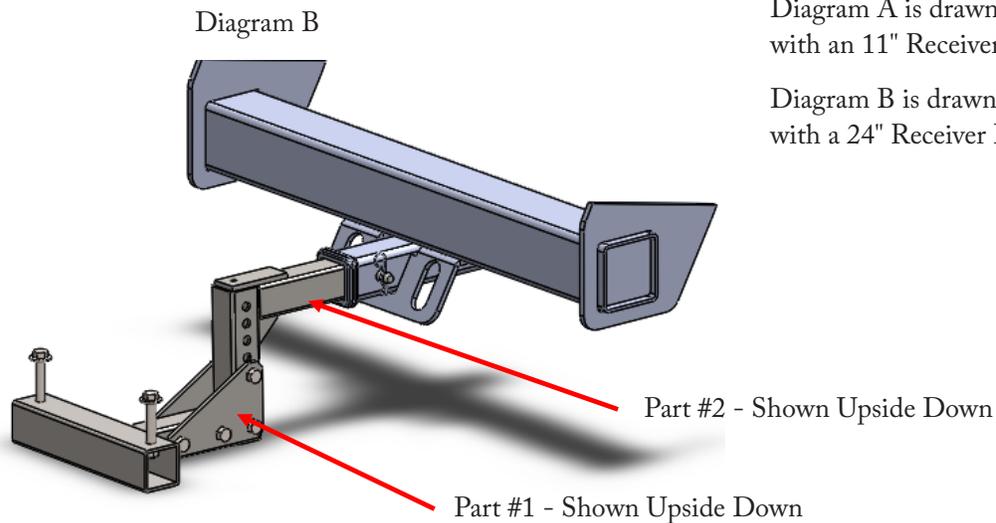
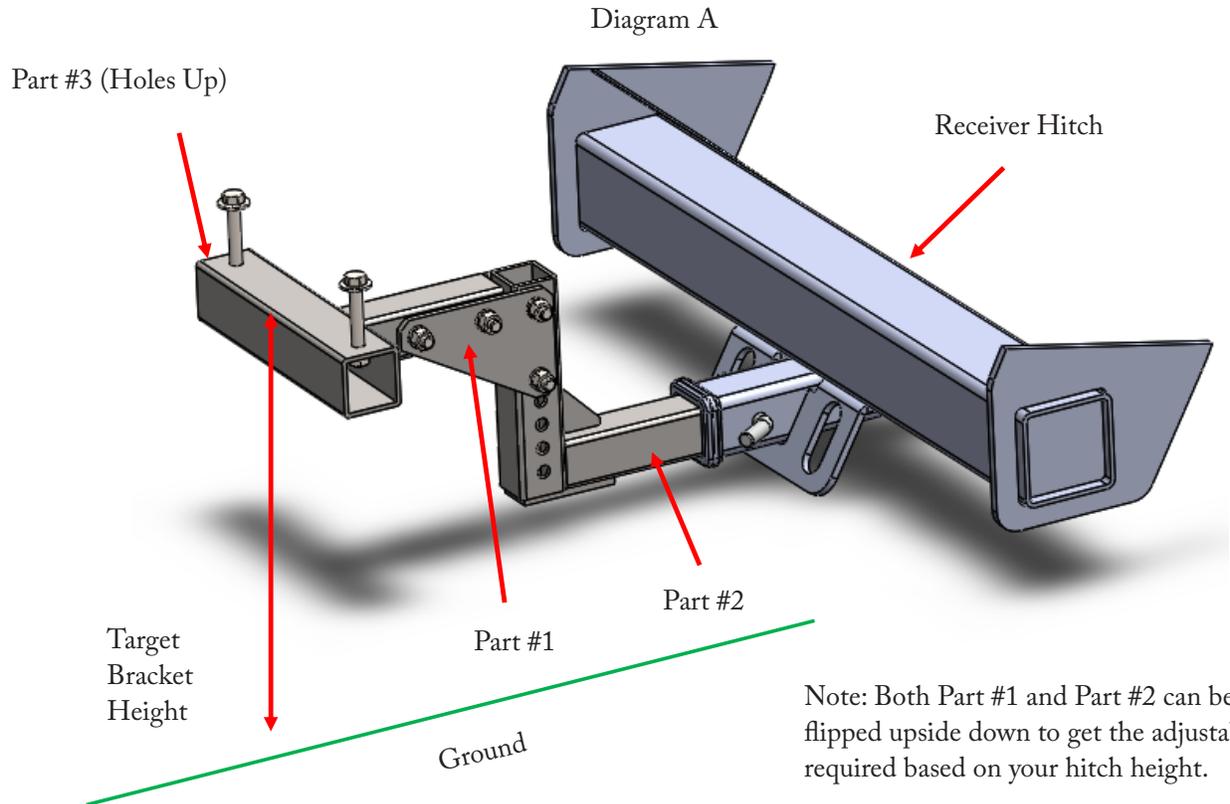


Step 3

Hitch Height (Inches)	Target Bracket Height (Inches)
11	18
12	19
13	20
14	21
15	22
16	22
17	22
18	22
19	22
20	22
21	22
22	22
23	22
24	22

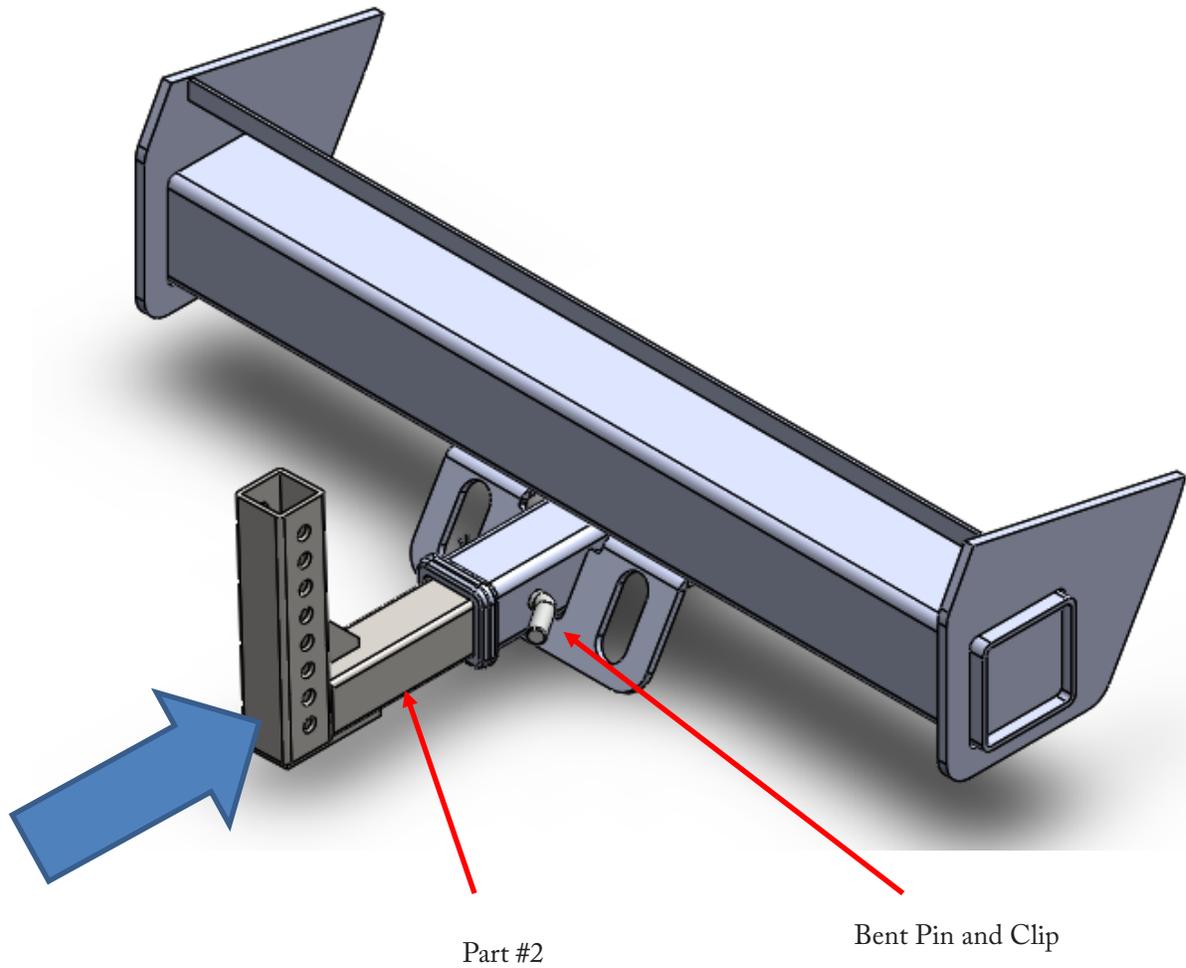
Step 3 (continued)

The 2" Receiver Mount Bracket should be assembled so the distance from the Ground to the Top of Part #3 matches the "Target Bracket Height" determined on the previous page. This will provide the most amount of clearance for mounting your magnet.



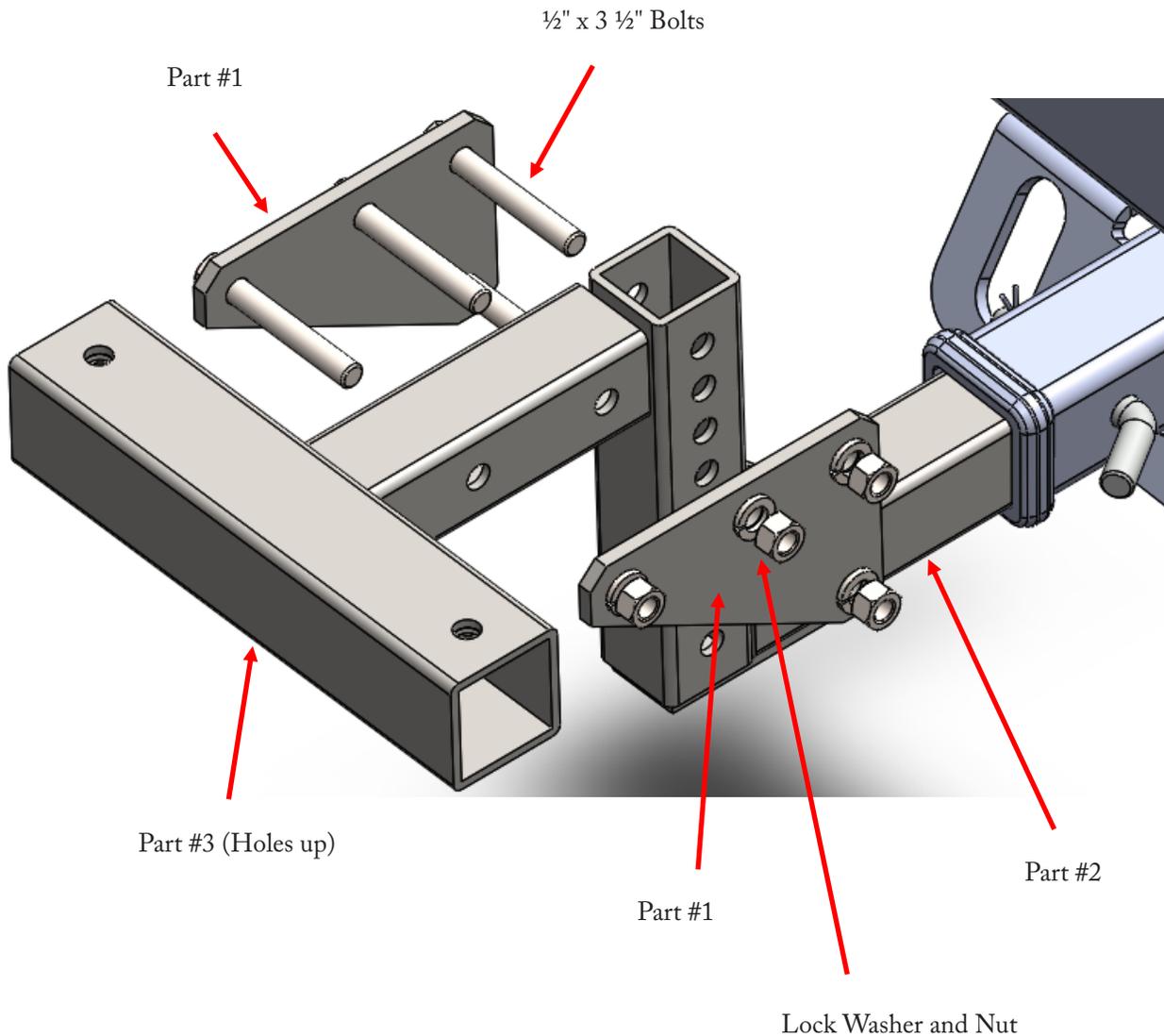
Step 4

Insert Part #2 into the Receiver Hitch and Install the Bent Pin and Clip.



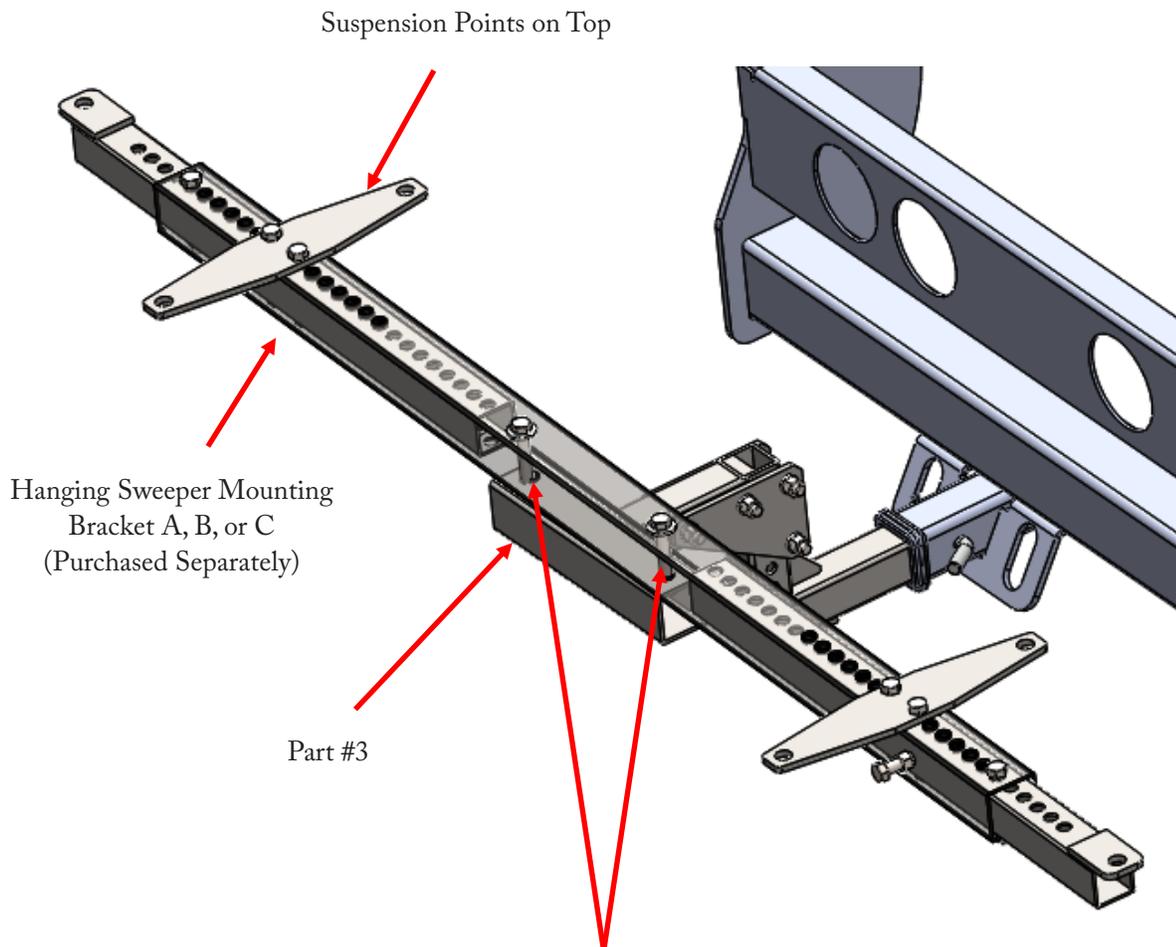
Step 5

Attach Part #3 to Part #2, using 2 Steel Clamping Plates (Part #1) and 4pcs $\frac{1}{2}$ " x $3\frac{1}{2}$ " hex bolts, 4pcs lock washers and 4pcs Hex Nuts (Part #5). Check to make sure Part #3 is at the "Target Bracket Height" from the ground that it should be. If not, reposition the parts as needed. Once the Distance is correct tighten all fasteners firmly.



Step 6

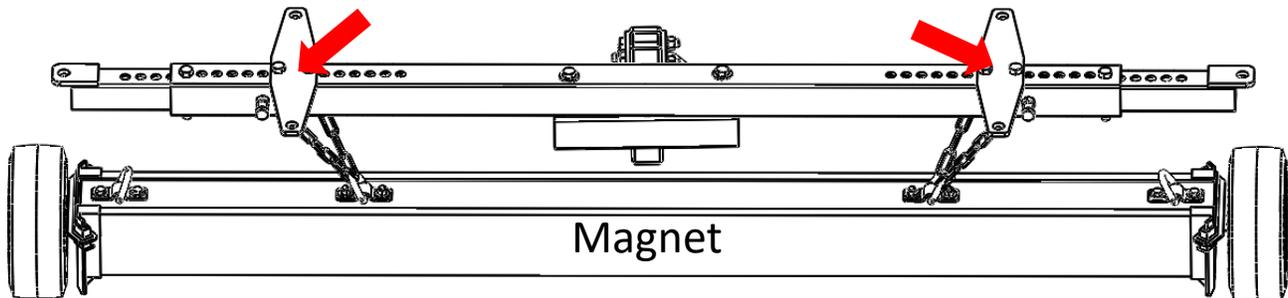
Attach a Hanging Sweeper Mounting bracket (A, B, or C) (Purchased Separately) as shown to the 2" Receiver Mount Bracket.



Install in the two locations shown 2 pcs 1/2" x 3.5" hex bolt, with a washer on top thru the hanging sweeper mounting bracket, thru the top of Part #3 and install a lock washer and nut inside Part #3.

Helpful Tips

After your Suspension Bracket is attached to the vehicle by way of additional accessories purchased from Bluestreak, or by way of your own additional fabrication you need to suspend the magnet from the Bracket. Use the assembly/installation instructions provided with your magnetic sweeper.



All Magnets should primarily be suspended with 4 chains from the Steel Mounting Plates as shown above. Wheeled sweepers are typically recommended to have the wheels set up $\frac{1}{2}$ " off of the ground, and non wheeled sweepers should always be kept as close to the ground as possible without hitting the ground when moving.

Additional suspension points on the ends of the Bracket are provided primarily for sweepers with lifting actuators to attach to. However you may use them to attach additional hanging chains.



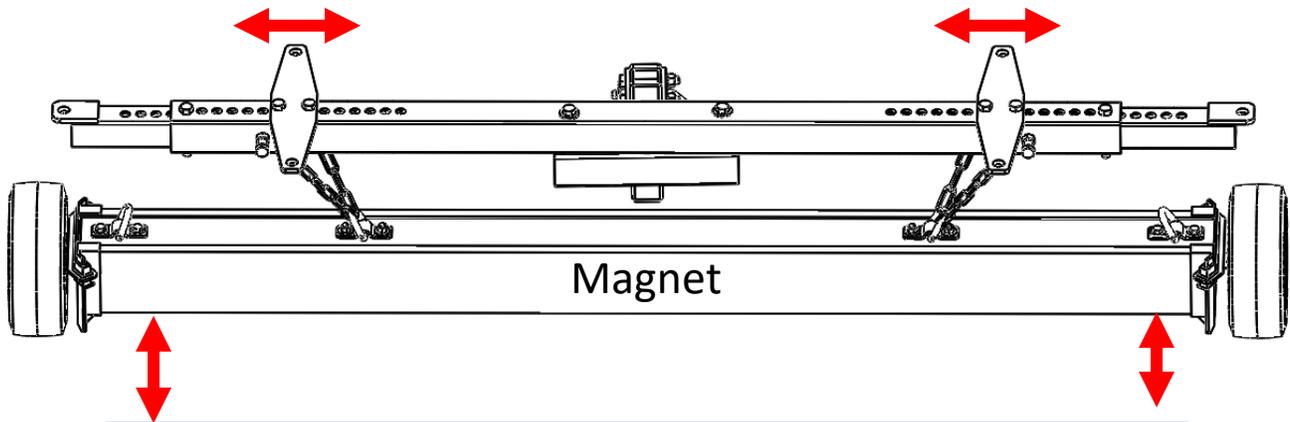
Tip #1: If your magnet appears to be hanging crooked it is possible the Steel Mounting Plates have not been assembled perfectly square. To correct this simply loosen both bolts in each of the 2 Steel Mounting Plates and the problem will correct itself. Retighten the bolts previously loosened.

If the problem still exists it may be possible 1) your chains are not the same length 2) There is a twist in one or more of the chains (this changes the length) 3) The chains are not uniformly connected at all ends (all 4 chains need to be the same length and have the same orientation)

Helpful Tips



Tip #2: Suspend the Sweeper with the Chains all positioned so they are on the inside of the Steel Mounting Plates as shown above.



Tip #3: The Ground Clearance can be fine tuned by changing the locations of the Steel Mounting Plates inward or outwards, to ensure your magnet is perfectly level with the ground. It is possible your vehicle or receiver hitch (if used) may not be perfectly level in all directions.

Hanging Sweeper Model	Size	Hanging Bracket Model	Dim A	Dim B	Dim C	Minimum Receiver Hitch Class Required	Minimum Tongue Weight Rating (lbs) Required
Aether	62	C	34	56	24	Class III	499
Aether	74	C	38	68	24	Class IV	556
Aether	86	C	42	80	24	Class IV	611
Aether	98	C	46	92	24	Class IV	666
Alpha	86	C	42	80	24	Class IV	631
Alpha	98	C	46	92	24	Class IV	686
Eiger 3x3	38	A	26	N/A	12.5	Class II	175
Eiger 3x3	50	A	32	46	12.5	Class II	199
Eiger 3x3	62	B	38	N/A	12.5	Class II	242
Eiger 3x3	74	B	44	70	12.5	Class II	266
Eiger 3x3	86	B	50	82	12.5	Class II	290
Eiger 3x3	98	B	56	94	12.5	Class II	314
Eiger 4.5x4.5	38	A	26	34	12.5	Class II	291
Eiger 4.5x4.5	50	A	32	46	12.5	Class II	347
Eiger 4.5x4.5	62	B	38	N/A	12.5	Class III	423
Eiger 4.5x4.5	74	B	44	70	12.5	Class III	480
Eiger 4.5x4.5	86	B	50	82	12.5	Class IV	535
Eiger 4.5x4.5	98	B	56	94	12.5	Class IV	590
Gobie	14	N/A	N/A	N/A	N/A	N/A	N/A
Gobie	20	N/A	N/A	N/A	N/A	N/A	N/A
Gobie	26	A	20	N/A	12.5	Class II	337
Gobie	32	A	23	N/A	12.5	Class III	387
Gobie	38	A	26	N/A	12.5	Class III	443
Gobie	44	A	29	N/A	12.5	Class III	493
Gobie	50	A	32	N/A	12.5	Class IV	547
Gobie	56	B	35	N/A	12.5	Class IV	617
Gobie	62	B	38	N/A	12.5	Class IV	673
Gobie	68	B	41	N/A	12.5	Class IV	723
Gobie	74	B	44	N/A	12.5	Class V	777
Gobie	80	B	47	N/A	12.5	Class V	827
Gobie	86	B	50	N/A	12.5	Class V	883
Gobie	92	B	53	N/A	12.5	Class V	933
Gobie	98	B	56	N/A	12.5	Class V	987
ISO	62	A	22	64	12.5	Class III	433
ISO	74	B	34	76	12.5	Class IV	522
ISO	86	B	46	88	12.5	Class IV	590
ISO	98	B	58	100	12.5	Class IV	657

Hanging Sweeper Model	Size	Hanging Bracket Model	Dim A	Dim B	Dim C	Minimum Receiver Hitch Class Required	Minimum Tongue Weight Rating (lbs) Required
Khamsin	62	A	22	62	12.5	Class III	403
Khamsin	74	B	34	74	12.5	Class III	480
Khamsin	86	B	46	86	12.5	Class IV	535
Khamsin	98	B	58	98	12.5	Class IV	590
PYR 3x3	38	A	26	N/A	12.5	Class II	154
PYR 3x3	50	A	32	46	12.5	Class II	175
PYR 3x3	62	B	38	58	12.5	Class II	215
PYR 3x3	74	B	44	70	12.5	Class II	236
PYR 3x3	86	B	50	82	12.5	Class II	256
PYR 3x3	98	B	56	94	12.5	Class II	276
PYR 4.5x4.5	38	A	26	N/A	12.5	Class II	294
PYR 4.5x4.5	50	A	32	46	12.5	Class III	350
PYR 4.5x4.5	62	B	38	58	12.5	Class III	426
PYR 4.5x4.5	74	B	44	70	12.5	Class III	483
PYR 4.5x4.5	86	B	50	82	12.5	Class IV	538
PYR 4.5x4.5	98	B	56	94	12.5	Class IV	593
Remoras	38	N/A	N/A	N/A	N/A	N/A	N/A
Remoras	50	N/A	N/A	N/A	N/A	N/A	N/A
Remoras	62	N/A	N/A	N/A	N/A	N/A	N/A
Remoras	74	N/A	N/A	N/A	N/A	N/A	N/A
Remoras	86	N/A	N/A	N/A	N/A	N/A	N/A
Remoras	98	N/A	N/A	N/A	N/A	N/A	N/A
Wrasse 2x5	26	A	20	N/A	12.5	Class II	123
Wrasse 2x5	38	A	26	N/A	12.5	Class II	142
Wrasse 2x5	50	A	32	N/A	12.5	Class II	161
Wrasse 2x5	62	B	38	N/A	12.5	Class II	200
Wrasse 2x5	74	B	44	N/A	12.5	Class II	219
Wrasse 2x5	86	B	50	N/A	12.5	Class II	238
Wrasse 2x5	98	B	56	N/A	12.5	Class II	258
Wrasse 3x3	26	A	20	N/A	12.5	Class II	129
Wrasse 3x3	38	A	26	N/A	12.5	Class II	150
Wrasse 3x3	50	A	32	N/A	12.5	Class II	171
Wrasse 3x3	62	B	38	N/A	12.5	Class II	211
Wrasse 3x3	74	B	44	N/A	12.5	Class II	232
Wrasse 3x3	86	B	50	N/A	12.5	Class II	252
Wrasse 3x3	98	B	56	N/A	12.5	Class II	273
Wrasse 4.5x4.5	26	A	20	N/A	12.5	Class II	192
Wrasse 4.5x4.5	38	A	26	N/A	12.5	Class II	238

Hanging Sweeper Model	Size	Hanging Bracket Model	Dim A	Dim B	Dim C	Minimum Receiver Hitch Class Required	Minimum Tongue Weight Rating (lbs) Required
Wrasse 4.5x4.5	50	A	32	N/A	12.5	Class II	283
Wrasse 4.5x4.5	62	B	38	N/A	12.5	Class II	349
Wrasse 4.5x4.5	74	B	44	N/A	12.5	Class III	395
Wrasse 4.5x4.5	86	B	50	N/A	12.5	Class III	441
Wrasse 4.5x4.5	98	B	56	N/A	12.5	Class III	487

Bluestreak Equipment • 1645 Hwy #3, Delhi, Ontario, Canada N4B 2W6

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