

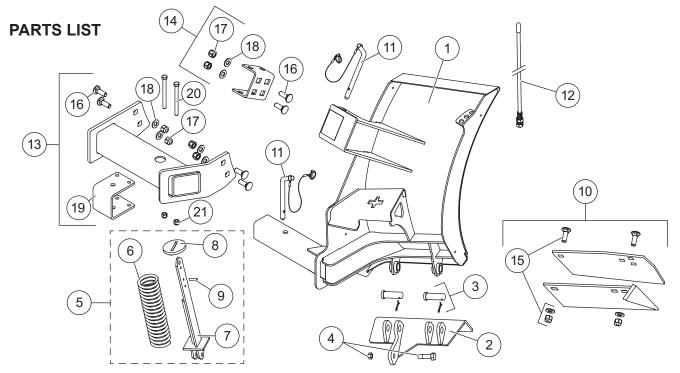
41790

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Blade Wing Extension Kit

HD2[™] & HDX[™] Snowplows



| 41790 Blade Wing Extension Kit | | | | | | | | |
|---|-------|----------------|-----------------------------------|------|-----------|-----|--------------------------------------|--|
| ltem | Part | Qty | Description | Item | Part | Qty | Description | |
| 1* | 52175 | 1 | Blade Wing Extension – PS | 9 | 20181 | 2 | 1/4 x 1-1/4 Pin | |
| ns* | 52176 | 1 | Blade Wing Extension – DS | 10 | 52045 | 1 | Cutting Edge Kit – PS | |
| 2 | 52179 | 1 | Base Angle – PS | ns | 52046 | 1 | Cutting Edge Kit – DS | |
| ns | 52181 | 1 | Base Angle – DS | ns | 52050 | 1 | Cutting Edge Kit – PS and DS | |
| 3 | 5523K | 4 | 3/4 x 2-3/16 Machine Pin w/Cotter | 11 | 63565 | 4 | 1/2 x 5-1/2 Stand Pin Assembly | |
| 4 | 40905 | 2 | Shoulder Bolt w/ Locknut | 12 | 27195 | 1 | 26" Flexible Blade Guides (set of 2) | |
| 5 | 21452 | 2 | Removable Spring Assembly HD | 13 | 52047 | 1 | Lower Wing Mounting Bracket Kit – PS | |
| 6 | 5323 | 2 | Trip Spring | ns | 52048 | 1 | Lower Wing Mounting Bracket Kit – DS | |
| 7 | 21450 | 2 | Removable Spring Bar | 14 | 52049 | 2 | Blade Upper Mounting Bracket Kit | |
| 8 | 20191 | 2 | Removable Spring Disc | 15 | 52515 | 2 | Cutting Edge Bolt Kit HD2/HDX Wing | |
| ns 52044 Bolt Bag – Mounting Brackets | | | | | | | | |
| 16 | | 12 | 1/2-13 x 1-1/2 Carriage Bolt G8 | 18 | | 12 | 1/2 Hardened Flat Washer | |
| 17 | | 12 | 1/2-13 Hex Locknut GB | | | | | |
| Item 19 52131 Lower Mounting Bracket Sleeve Kit | | | | | | | | |
| 20 | | 2 | 3/8-16 x 4-1/4 Hex Cap Screw G5 | 21 | | 2 | 3/8-16 Hex Locknut GB | |
| | | ns = not shown | | | G = Grade | | | |
| * Also includes Items 2–9. | | | | | | | | |

INSTALLATION INSTRUCTIONS

A WARNING

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

Read this document before installing the blade wing extension kit.

Use standard methods and practices when attaching snowplow and installing accessories, including proper personal protective safety equipment.

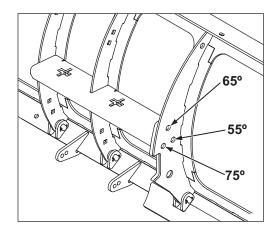
See your FISHER[®] outlet/website for specific vehicle application recommendations before installation. Blade wing weight information may be found in the eMatch tool.

For best results, wing extensions should be installed only on a blade equipped with a new cutting edge. Adding wing extensions to a blade with a worn main cutting edge can result in poor blade and/or wing cutting edge performance.

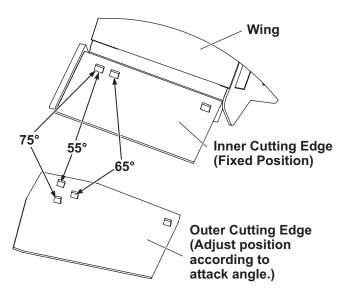
 Park the vehicle on a smooth, level, hard surface, such as concrete. Lower the blade to the ground, and turn the control OFF. Disconnect the snowplow from the vehicle, or turn the vehicle ignition to the "OFF" position and remove the key.

It may be necessary to rest the cutting edge on a piece of wood so the blade is raised slightly off the ground.

 HDX[™] Snowplow: Determine the main blade attack angle by noting which holes are used for attaching the quadrant to the blade.

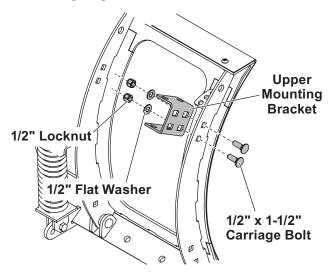


Align the holes in the cutting edges with the wing base angle holes corresponding to the blade attack angle setting.

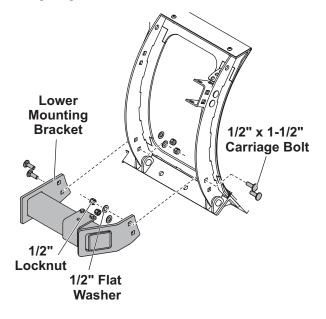


HD2[™] Snowplow: Align the holes in the cutting edges with the holes in the wing base angle that correspond to the 55° attack angle setting.

- Install the cutting edges using two 5/8" x 2" carriage bolts, 5/8" washers and 5/8" locknuts. Tighten the fasteners until finger tight.
- 4. Repeat Steps 2 and 3 for the other wing.
- Align the holes in one of the upper mounting brackets with the holes in an outer blade rib. Attach the upper mounting bracket to the blade rib using two 1/2" x 1-1/2" carriage bolts, 1/2" flat washers and 1/2" locknuts. Tighten the fasteners until finger tight.



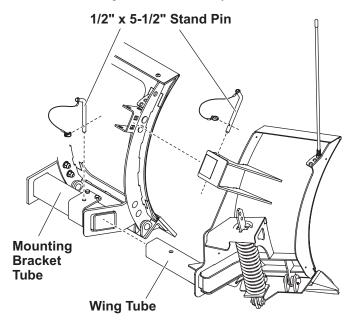
 Align the holes in the lower mounting bracket with the holes in the lower two outside blade ribs. Install the lower wing bracket to the blade using four 1/2" x 1-1/2" carriage bolts, 1/2" flat washers and 1/2" locknuts. Tighten the fasteners until finger tight.



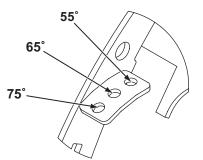
7. Insert the wing tube into the lower mounting bracket tube. Slide the wing into the tube until the stand pin holes in the wing assembly align with the corresponding holes in the mounting brackets. Install one of the 1/2" x 5-1/2" stand pins through the lower bracket hole.

Push the wing assembly tight to end of the blade and align with the upper bracket. If the pin hole between the upper bracket and wing align, insert the second $1/2" \times 5-1/2"$ stand pin. If the holes do not align, remove the upper mounting bracket, flip the bracket 180°, and repeat this step.

Once both upper and lower brackets are aligned and the pins are installed, torque the 3/8" fasteners on the lower bracket sleeve to 31 ft-lb. Retighten as necessary.



- Tighten the 1/2" mounting bracket fasteners to 106 ft-lb and the 5/8" cutting edge fasteners to 150 ft-lb.
- 9. Repeat Steps 5 through 8 for the other wing.
- 10. **HDX™ snowplow only:** Determine the correct blade guide installation hole according to the blade attack angle setting. Install the blade guides in the corresponding holes.



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