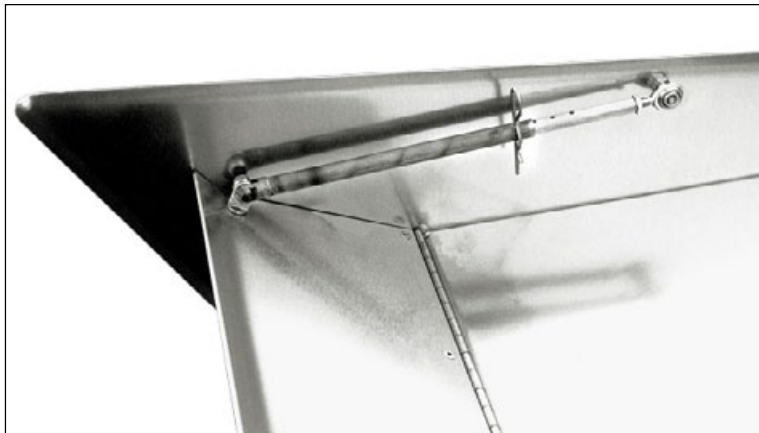


INSTALLATION GUIDE



6812

DRAG-RACE SPOILER FLAP ADJUSTERS



Description: Flap adjusters for aluminum sheet-metal, drag-race-style rear spoiler.

Includes: Rod ends, adjuster rod, and mounting hardware.

PARTS LIST

6812 – Drag-Race Spoiler Flap Adjusters

Item	Qty	Part Number	Description
1	4	1304	Spoiler adjuster
2	12	3101-019-32S	Locknut 10-32 stainless steel
3	4	3104-019F0.63S	Buttonhead Allen 10-32 x 5/8" stainless steel
4	8	3109-022-S-2-Y	Aircraft washer 3/16 ID small OD
5	4	3110-019-32-5C	Hex nut 10-32 plated
6	4	3111-019X019-RY	Rod end CM3Y with 3/16" right hand thread
7	4	3159-AN42B-4A	Eyebolt 10-32 thread 3/16 hole
8	4	3611	Hair pin clip 1-3/16" x .072
9	4	5008	Flap angle adjuster receiver

INSTRUCTIONS

Installing the spoiler flap adjusters

1. Thread the 10-32 jam nuts onto the rod ends, so there is 9/16" on the shank from the jam nut to the end of the shank.
2. Thread the rod ends into the spoiler adjusters until the jam nut contacts the adjuster.
3. Insert the spoiler adjusters into the flap angle adjuster receivers until the first hole in the adjusters lines up with the hole in the receivers.
4. Put the hair pins in the holes to hold the adjuster in place.
5. Use two pieces of angle iron or square tubing and clamps to position the spoiler adjustable rear flap flat with the spoiler deck before installing the adjusters to the spoiler center blades and adjustable flap.
6. The adjusters mount parallel to the center spoiler blades toward the center of the spoiler deck.
7. Use a straight edge to extend a line from the inside of the spoiler blade back to the adjustable flap just in front of the bent lip.
8. Mark the adjustable flap where each spoiler blade is positioned.
9. Drill a 3/16" diameter hole; 1/2" toward the center of the spoiler on the lines marked above and 3/8" from the bent lip at the rear of the adjustable spoiler flap.
10. Do this for each spoiler blade position. Refer to photo 1.
11. Insert the 10-32 eyebolts through the holes in the adjustable flap from the top side.
12. Slide an aircraft washer on the eyebolts followed by a locknut.
13. Tighten until the eyebolts are snug but not completely tight. The tang on the eye bolts should be parallel to the center spoiler blades.

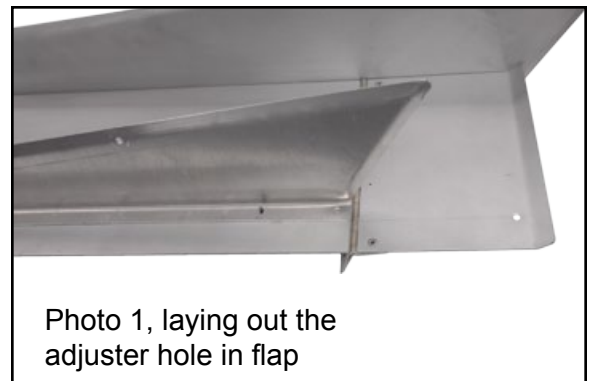


Photo 1, laying out the adjuster hole in flap

14. Measure the distance from the center of the hole in the adjuster receiver to the center of the rod end stud on the adjuster assembly.
15. Record this measurement _____.
16. Using the measurement above; measure from the center of the eyebolt forward along the spoiler center blades and mark the blades.
17. Drill a 3/16" diameter hole; 3/8" from the bent lip on the spoiler center blades on the mark made above. Do this for each spoiler blade position.
18. Insert the stud on the rod ends through the holes in the spoiler center blades.
19. Slide an aircraft washer on the studs followed by a locknut and tighten.
20. Slide the clevises over the eye bolts on the adjustable flap and secure with the 10-32 X 5/8" buttonhead fasteners and locknuts.
21. Tighten until the bolts can still be turned with an Allen wrench.

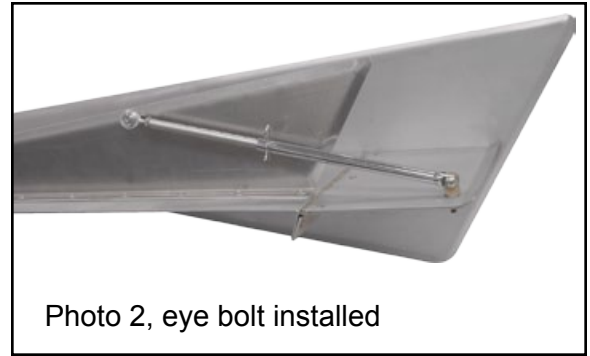
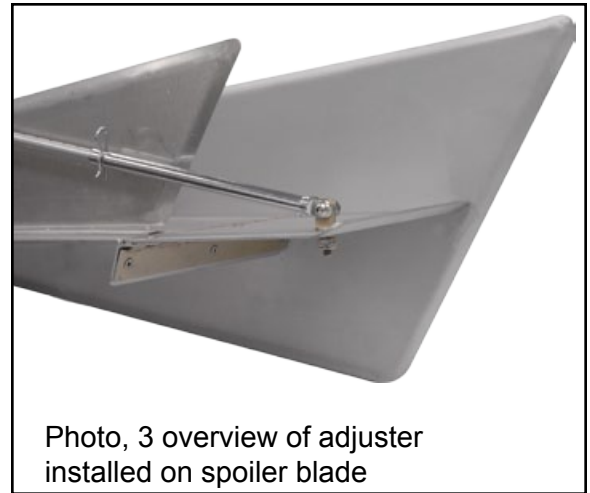


Photo 2, eye bolt installed



Photo, 3 overview of adjuster installed on spoiler blade

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