

INSTALLATION GUIDE

**2021 - CURRENT
FORD F-150
HEADACHE RACK PRO
HRS81FT21**

Pro-gard[™]
PRODUCTS LLC.

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I. The following tools will be required to complete the installation

- A. 3/8" socket
- B. 3/8" combination wrench
- C. 5/16" hex key
- D. Cutting Tool
- E. Drill

II. Read all instructions and refer to the Parts List on the last page to ensure all parts were received.

III. Vehicle Preparation

- A. If the stake pocket at the front of the bed is open, the vehicle preparation can be skipped. (see Figure 1.)
- B. Prepare the top bed rail trim by marking a point approximately 4" from the front the of the trim and 1.5" in from the inside of the bedrail.
- C. Drill a hole at the previously marked spot. Drill the hole progressively larger. Look through the drilled hole to identify the metal stake pocket opening below the plastic trim. Do not drill into the metal bedside, only the plastic bed trim.
- D. Once the hole is large enough to identify the metal edges of the bedside, use an appropriate cutting tool to open up the plastic trim to match the shape of the metal bedside stake pocket..
- E. Smooth out the cut edge once the cutting step is complete.



Figure 1

IV. Rack mount installation

- A. Starting with the driver side bed rail, place item 4 driver side mounting bracket (3HRS812100) on the bed rail by placing in the stake pocket and twisting clockwise the lower tab in place under the bedrail. (see Figure 2.)
- B. Install item 9 socket head 1/2" screw (3x301) through the existing hole in the side of the bed into item 4 driver side mounting bracket (3HRS812100) and loosely tighten. (see Figure 3.)
- C. Hold item 10 bracket reinforcement (3HRS812106) up under the bedrail and loosely tighten item 8 hex head 3/8" X 1-3/4" screw(3x648) holding item 10 bracket reinforcement in place.
- D. Repeat steps A through C with item 5 passenger side mounting bracket (3HRS812101).



Figure 2

V. Rack prep

- A. Install item 3 bottom closure (3HRS812105) onto the item 11 rack weldment (3HRS000000) using two of item 2 #10-32 torx screws (3X626).
- B. Install item 1 light blank (3HRS000003) onto item 11 rack weldment (3HRS000000) using item 2 #10-32 torx screws (3X626).
- C. If window guards are purchased install the outside guards first using the included hardware before installing the center guard. (see Figure 4.)



Figure 3

- D. If the optional light mounts have been purchased, install them using the included hardware on the outer edges of the uprights.



Figure 4

VI. Rack Installation

- A. Place item 11 rack weldment (3HRS000000) into item 4 driver side mounting bracket (3HRS812100) and item 5 passenger side mounting bracket (3HRS812101) lining up the four mounting holes.
- B. Insert item 6 hex head 3/8" X 2-3/4" screw (3X649) from the bed side of the rack in toward the cab. **(see Figure 5)**
- C. Install item 7 hex nut (3X64) onto item 6 hex head 3/8" X 2-3/4" screw (3X649) and tighten.
- D. Tighten item 9 socket head 1/2" screw (3X301) and item 8 hex head 3/8" X 1-3/4" screw (3X648) that were loosely tightened during step IV.



Figure 5

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	3HR5000003	HRS LIGHT BLANK
2	14	3X626	#10-24 3/4" TYPE F THREAD CUTTING, BUTTON HEAD TORX, BLACK
3	1	3HR5812105	HRS BOTTOM CLOSURE
4	1	3HR5812100	F150 DVR HRS BRACKET
5	1	3HR5812101	HRS PASS BRACKET WELDMENT
6	4	3X649	3/8-16 x 2-3/4 HEX HEAD
7	4	3X64	3/8-16 NYLON LOCKNUT, BLACK
8	2	3X648	3/8-16 x 1-3/4 HEX HEAD GRADE 5
9	2	3X301	1/2-13X1 FLANGE HEAD HEX DRIVE S5
10	2	3HR5812106	BRACKET REINFORCEMENT
11	1	3HR5000000	HRS WELDMENT
12	6	3X652	1/2" LOCKING PLUG
13	2	3X653	3/4" LOCKING PLUG

