



INSTALLATION INSTRUCTIONS HIDDEN WINCH MOUNT SKIRT

Part Number: 110942-IM

Application: 2023 Ford SD

GENERAL SAFETY PRECAUTIONS

Your safety, and the safety of others, is very important. To help you make informed decisions about safety, we have provided installation and operating instructions and other information on labels and in this guide. This information alerts you to potential hazards that could hurt you or others. It is not possible to warn you about all potential hazards associated with this product, you must use your own good judgment.

CARELESS INSTALLATION AND OPERATION CAN RESULT IN SERIOUS INJURY OR EQUIPMENT DAMAGE. READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND OPERATING INSTRUCTIONS BEFORE INSTALLING AND OPERATING THIS PRODUCT.

This guide identifies potential hazards and has important safety messages that help you and others avoid personal injury or death. **WARNING** and **CAUTION** are signal words that identify the level of hazard. These signal words mean:

▲ **WARNING** signals a hazard that could cause serious injury or death, if you do not follow recommendations. ▲ **CAUTION** signals a hazard that may cause minor to moderate injury, if you do not follow recommendations.

This guide uses **NOTICE** to call attention to important mechanical information, and **Note** to emphasize general information worthy of special attention.

▲ WARNING

IMPACT AND MOVING PARTS ENTANGLEMENT HAZARD

Failure to observe these instructions could lead to severe injury or death

- **Always** Know Your Winch. Take time to fully read the Instructions and/or Operations Guide, and/or Basic Guide to Winching Techniques, in order to understand your winch and its operations.
- **Never** work under vehicle before properly securing vehicle.
- **Always** use appropriate and adequate care in lifting components into place.
- **Never** work under vehicle before properly securing vehicle.
- **Always** use appropriate and adequate care in lifting components into place.
- **Never** use a jack to support the vehicle.
- **Always** use jack stands in pairs to support the vehicle.
- **Always** use jacks or jack stands only on a hard, stable, and level surface.
- **Never** exceed the rated capacity of a jack or jack stands.
- **Always** verify that the parking brake is set, the transmission is in park (automatic) or reverse (manual) and the rear wheels are blocked before working on vehicle.
- **Never** work under vehicle before properly securing vehicle.
- **Always** use appropriate and adequate care in lifting components into place.
- **Always** insure components will remain secure during installation and operation.
- **Always** tighten all nuts and bolts securely, per the installation and operation.
- **Always** perform regular inspections and maintenance on the winch, winch mount and related hardware.
- **Always** replace all worn or damaged parts before operating.
- **Never** operate this WARN product with damaged or missing parts.
- **Always** use extreme caution when drilling on any vehicle. Make sure that all fuel lines, brake lines, electrical wires, and other objects are not punctured or damaged when/if drilling on the vehicle. Thoroughly inspect the area to be drilled (on both sides of material) prior to drilling, and relocate any objects that may be damaged. Failure to inspect the area to be drilled may result in vehicle damage, electrical shock, fire or personal injury.
- **Always** use extreme caution when cutting and trimming during fitting.
- **Always** wear safety glasses when installing this kit. A drilling operation will cause flying metal chips. Flying chips can cause eye injury.
- **Always** remove jewelry and wear eye protection.
- **Never** lean over battery while making connections.
- **Never** route electrical cables across any sharp edge, through or near moving parts, near parts that become hot.

Read installation and operating instructions thoroughly.

WARN INDUSTRIES, INC. 12900 S.E. Capps Road,
Clackamas, OR USA 97015-8903, 1-503-722-1200, FAX: 1-503-722-3000
Customer Service: 1-800-543-9276
Dealer Locator Service: 1-800-910-1122
International Fax: 1-503-722-3005

⚠ CAUTION

MOVING PARTS ENTANGLEMENT HAZARD

Failure to observe these instructions could lead to minor or moderate injury

- Part edges may be sharp!
- Always use proper posture / lifting technique or get lifting assistance while handling and installing product.

Read installation and operating instructions thoroughly.

NOTICE

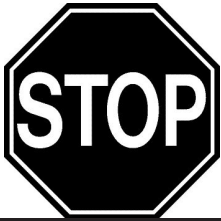
EQUIPMENT DAMAGE

- **Never** tow vehicle by attaching a tow bar to the eyelets on the bumper.
- Do not attach tow bars directly to the bumper. Damage to bumper may occur. WARN bumpers are not designed to be used for flat towing. Consult with the manufacturer of your tow bar system for the proper vehicle tow bar brackets..

Read installation and operating instructions thoroughly.

BEFORE YOU BEGIN

NOTICE



This product may interfere with driver assist systems such as adaptive cruise control and parking assist systems that have sensors or cameras installed in the bumpers or front grill area. If your vehicle is equipped with any of these systems or features, consult your vehicle owner's manual before installing this product. These systems may need to be disabled as a result of installing this product.

TABLE OF CONTENTS

Tools Required	page 2
Torque Specifications	page 2
Parts List	page 3
Installation	page 4-5
Maintenance/Care	page 6

TOOLS REQUIRED

- 4mm Allen Wrench
- 10mm Socket Wrench
- 13mm Socket Wrench
- 15mm Socket Wrench
- 5/8" Socket Wrench
- Body Pry Tool
- Trimming tool

TORQUE SPECIFICATIONS

Please use the recommended torque specifications when assembling this product unless otherwise specified in the instructions.

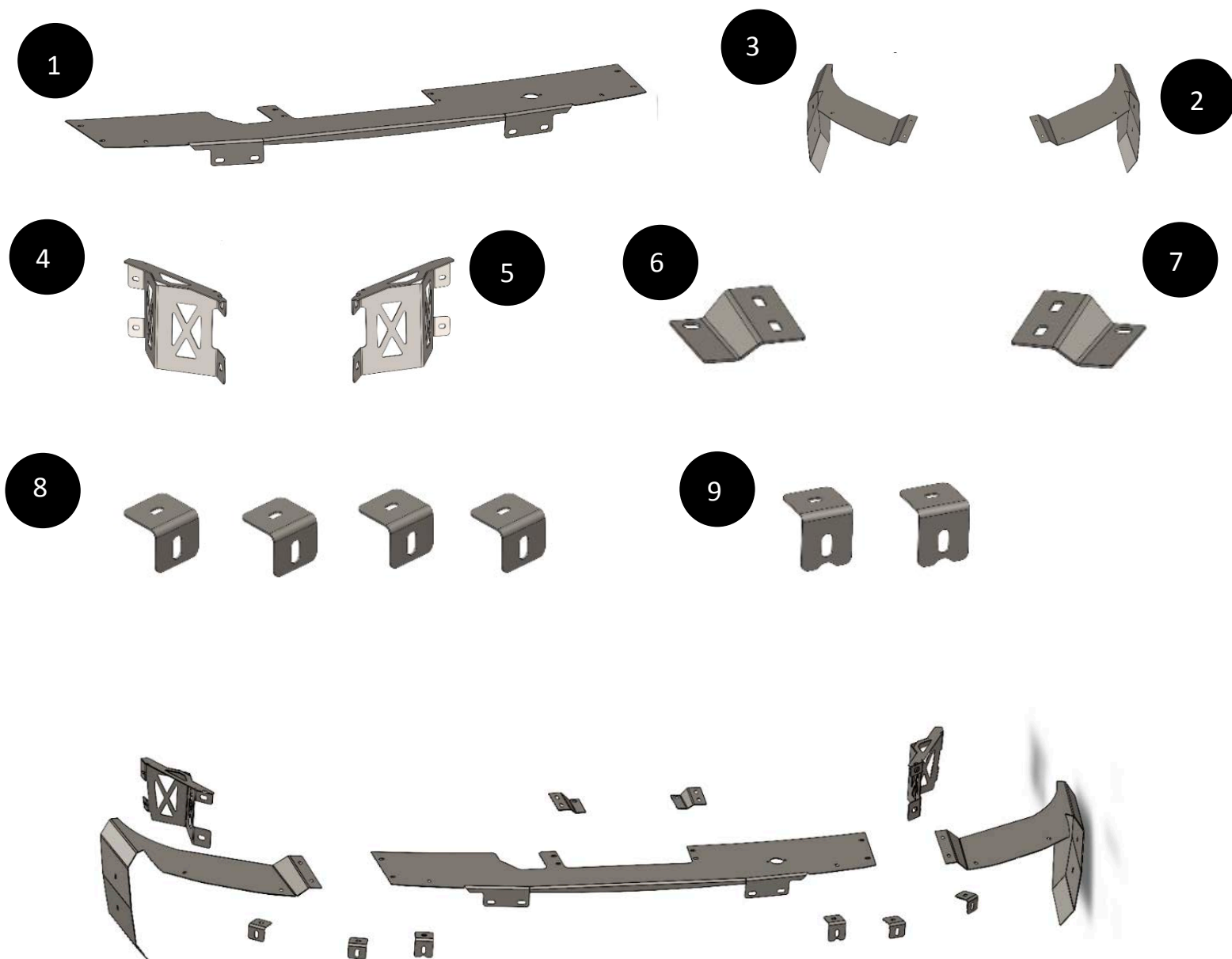
FASTENER SIZE	FASTENER TORQUE		FASTENER SIZE	FASTENER TORQUE	
	lb-ft	(N.m)		lb-ft	(N.m)
1/4"	8	(11)	M4	(2)	3
5/16"	17	(23)	M5	(4.5)	6
3/8"	30	(40)	M6	(7.5)	10
7/16"	48	(66)	M8	(18)	25
1/2"	74	(100)	M10	(37)	50
9/16"	106	(144)			
5/8"	148	(200)			
3/4"	269	(364)			

INCLUDED PARTS

ITEM	DESCRIPTION
1	23189: Skirt Kit Center
2	23190: DS Wing Section
3	23191: PS Wing Section
4	23192: DS Wing Support Bracket
5	23193: PS Wing Support Bracket
6	23194: DS Winch Bracket
7	23195: PS Winch Bracket
8	23201: Short L-Bracket
9	23202: Long L-Bracket

HARDWARE KIT

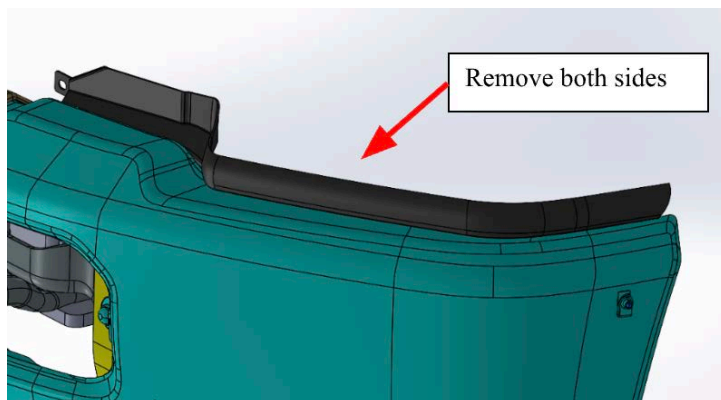
PART NO.	DESCRIPTION	QTY
50457-HW	7/16"-14 X 1", Yellow Zinc Hex Cap Bolt, Grade 8	2
50457-HW	7/16", Yellow Zinc Flat Washer, Grade 8	2
50457-HW	M6-1.0 x 25 , Bolt , Black	18
50457-HW	M6 , Flat Washer, SS	18
50457-HW	M6-1.0 , Nut , Nylock, SS	18



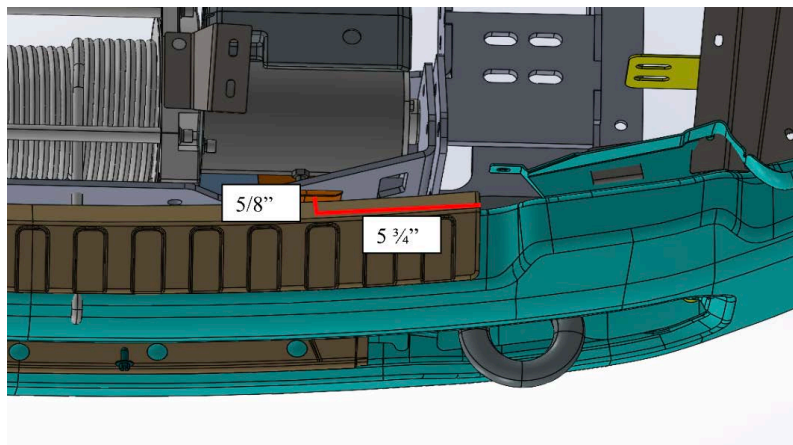
1. Refer to installation instructions for 107168 Hidden Winch mount for disassembly of OEM bumper.

2. Per 107168 installation instructions, install hidden winch mount and desired winch. Do not reinstall OEM bumper.

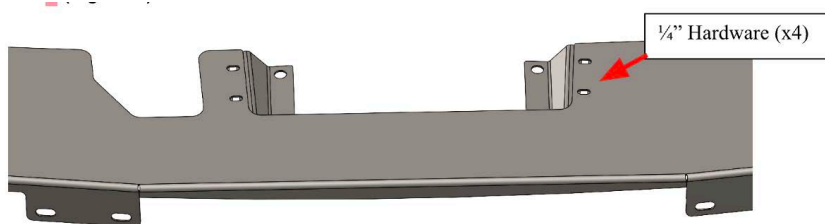
3. Remove rubber bulb seals from top of the bumper on both sides using body pry tool. (Figure 1)



4. Trim $5/8'' \times 5 \frac{3}{4}''$ rectangle out of both side of black plastic cap on top of bumper using trimming tool. (Figure 2)



5. Using 4mm allen wrench and 10mm socket, install 23194 and 23195 winch brackets onto 23189 center section with $1/4''$ button headed cap screws, washers and nylock nuts,. (Figure 3)



INSTALLATION INSTRUCTIONS

6. Using 13mm socket, install “L-Brackets” 23201 & 23202 on inside of bumper using OEM hardware. (Figure 4) Do not tighten. Do this on both sides of bumper.

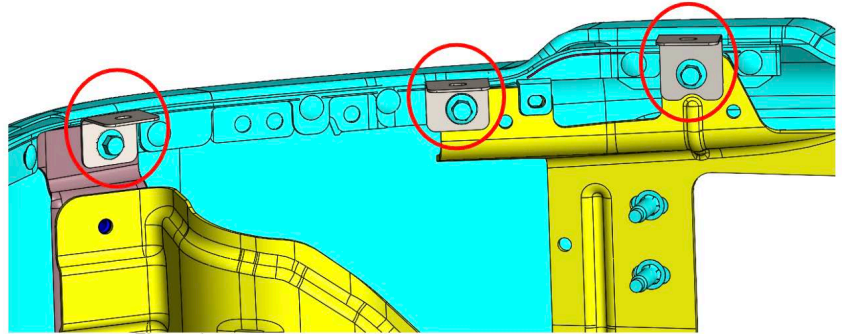
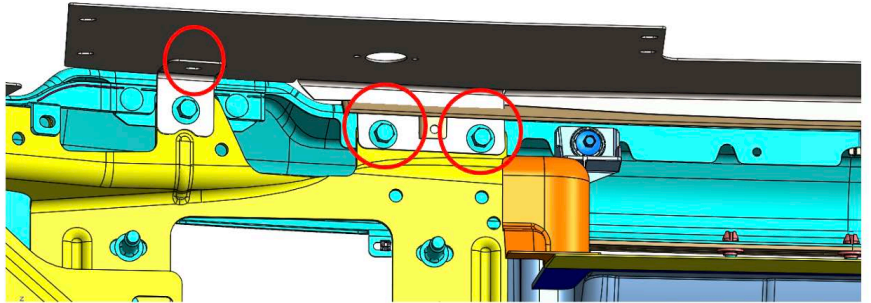


Figure 4.

7. Install center section of skirt kit (23189) using four (4) OEM bolts in center of bumper and one (1) ¼” bolt, washers and nylock nut into inside “L-brackets” (23202) installed in step 6. (Figure 5)



8. Install DS wing section of skirt kit (23190) using four (4) ¼” bolts, washers and nylock washers, one (1) in each “L-Bracket” and two (2) into center section. (Figure 6) Repeat on passenger side.

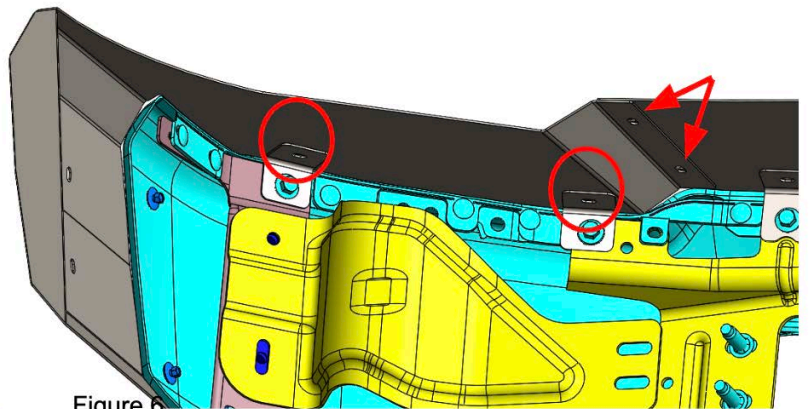


Figure 6.

9. Using 15mm socket, install wing support bracket (23192) using two (2) OEM bolts in bumper support and two (2) ¼” bolts, washers (4), and nylock nuts into side of wing. (Figure 7) Repeat for passenger side.

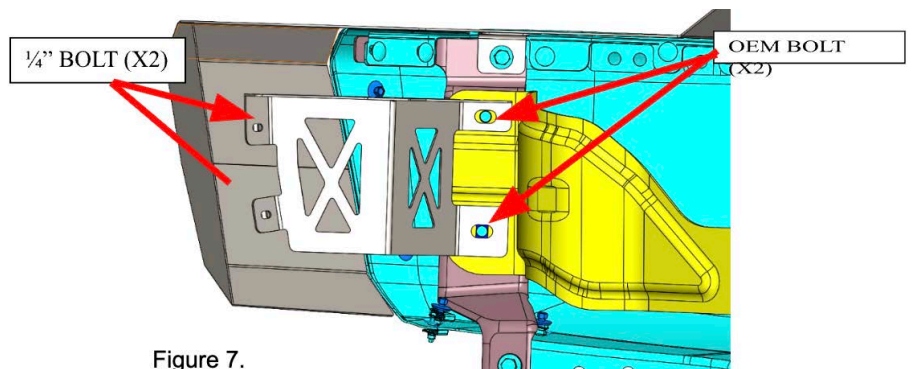


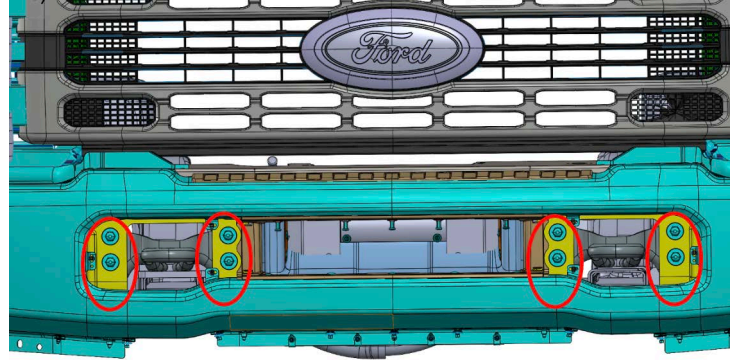
Figure 7.

INSTALLATION INSTRUCTIONS

10. Align all panels with bumper to minimize gaps and tighten all hardware.

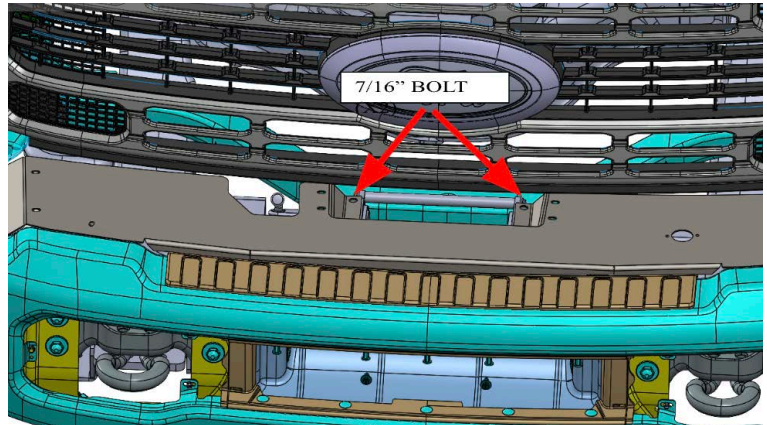
11. Install winch controller connector into hole in driver side of skirt kit.

12. With assistance, lift bumper up to bolt holes on tow hook and insert OEM bolts. (Figure 8)



13. Using OEM bolts, attach bumper supports to new brackets (brackets A5 & A6 in installation manual) installed with hidden winch mount.

14. Using 5/8" socket, mount winch brackets on skirt kit to top of winch with two (2) 7/16" bolts and washers provided in hardware kit. (Figure 9)



15. Installation Complete.



INSTALLATION INSTRUCTIONS

MAINTENANCE / CARE

1. Inspect all parts on the winch, winch mount, and related hardware prior to each use. Replace all hardware that appears rusted or deformed.
2. Inspect all nuts and bolts on the winch, winch mount,, and related hardware prior to each use. Tighten all nuts that appear to be loose. Stripped, fractured, or bent bolts or nuts need to be replaced.
3. Check all cables prior to use. Replace cables that look worn or frayed.
4. Check all moving or rotating parts. Remove debris that may inhibit the part from moving freely.

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