



INSTALLATION INSTRUCTIONS

12K Gen III Trans4mer Bracket Kit

Part Number: 107653

Application: 2021+ Ford F150

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 Sales/Customer Service: 1-503-722-3008
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.

NOTICE

- **This kit is only intended for mid-frame applications with a rating of 12,000 lb. or less**

BEFORE YOU BEGIN



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

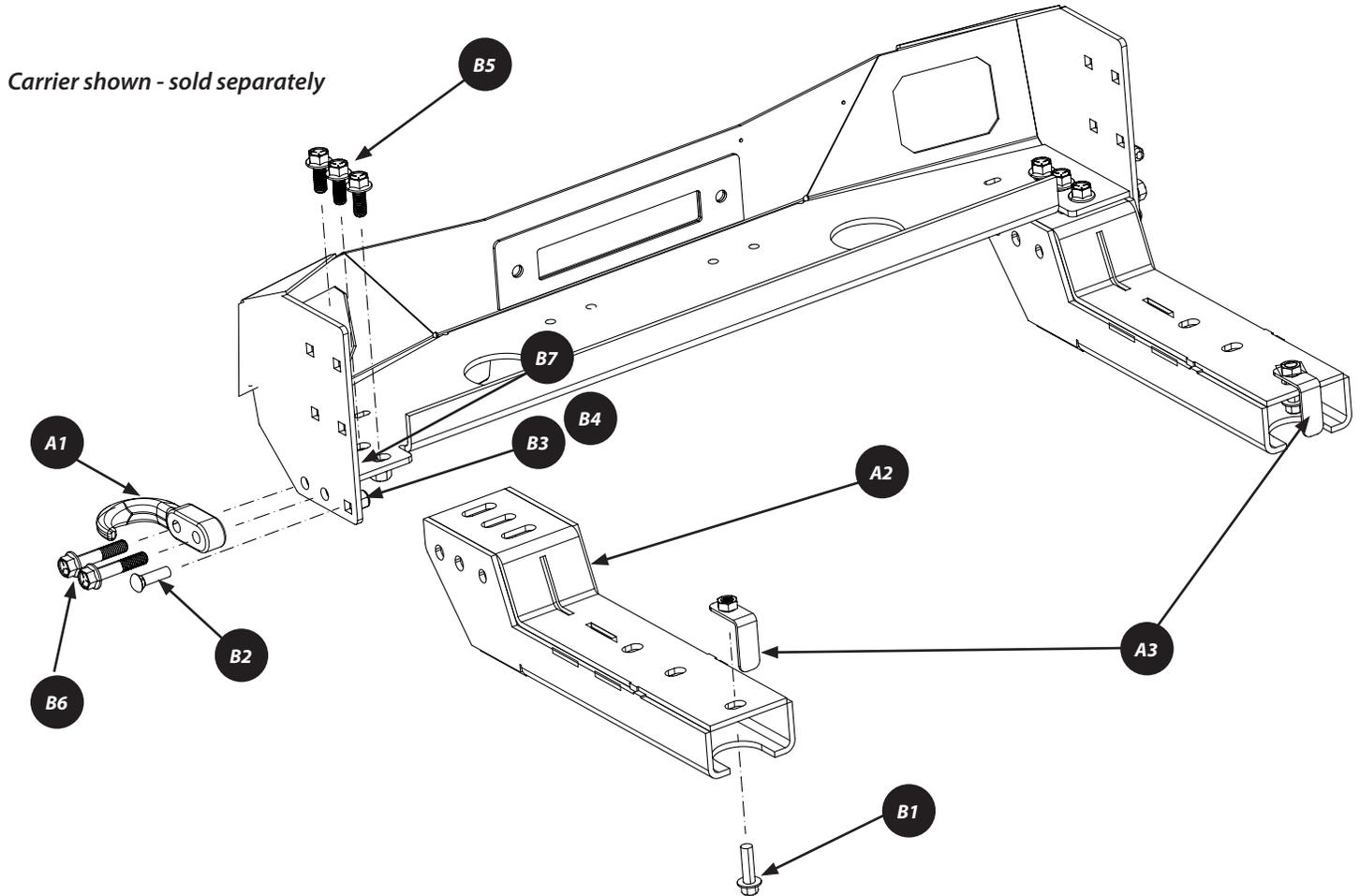
Tools Required.....	page 2
Parts List.....	page 3
Torque Specifications.....	page 3
Installation.....	page 4-8
Maintenance/Care.....	page 9

TOOLS REQUIRED

- Standard wrenches
- Standard sockets

PARTS LIST

Item	PN	Description	Qty.	Item	PN	Description	Qty.
A1	13222	TOW HOOK	2	B1	107752	M12-1.75X40 FLANGE BOLT	2
A2	107654	FRAME BRACKET	2	B2	11124	7/16-14x1.5 CARRIAGE BOLT	2
A3	107658	NUT PLATE	2	B3	710123	7/16-14-LOCK NUT	2
				B4	74636	7/16 WASHER	2
				B5	102835	1/2-13 x 1.5 FLANGE BOLT	6
				B6	102836	1/2-13 x 2.5 FLANGE BOLT	4
				B7	29060	1/2-13 LOCK NUT	10



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)			

INSTALLATION INSTRUCTIONS

1. From underneath the truck, locate the large harness connector on top of the passenger side frame rail and unplug.

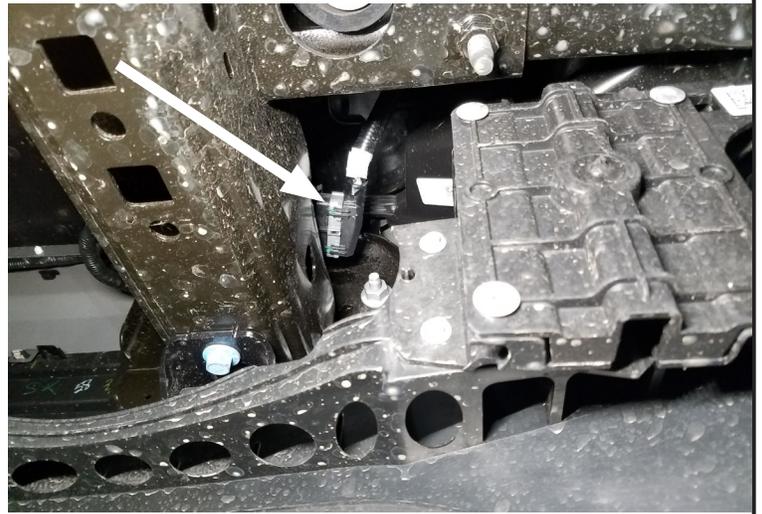


Figure 1

2. Using a 24mm socket, remove the six nuts (3 per side) that hold the bumper to the frame. **Note: There is one nut on the inboard side of each frame pad and two on the outboard side.**

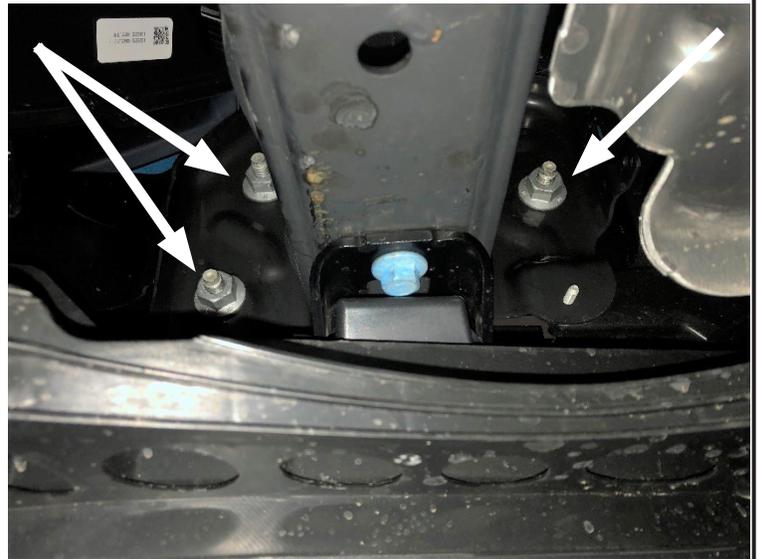


Figure 2

CAUTION Always use assistance when moving or lifting heavy parts.

3. With assistance, remove the bumper from the vehicle. **TIP: Tilt the bottom of the bumper out first.**



Figure 3

INSTALLATION INSTRUCTIONS

4. From the bumper, if equipped with an Active Air Dam, use a 7mm socket to remove the retaining screws (3 per side- driver's side shown) securing air dam to bumper.



Figure 4

5. Remove air dam completely.



Figure 5

6. From the bottom of the frame rail, use a 15mm socket, to remove the two tow hook bolts holding the tow hooks in place.
7. Remove tow hooks. Keep nut plates in position. Retain bolts for re-install.

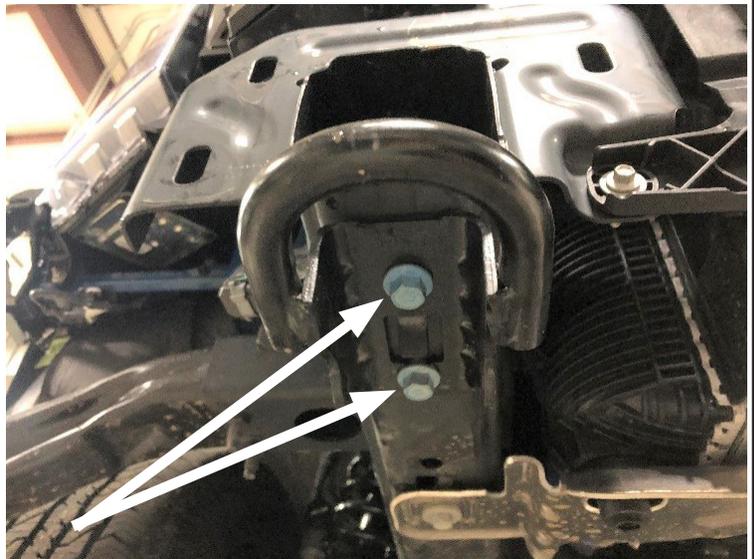


Figure 6

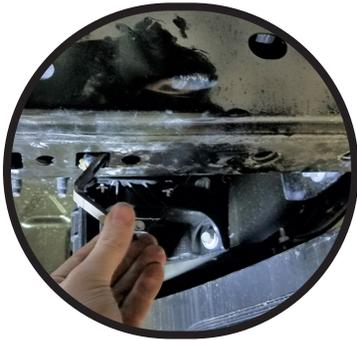
INSTALLATION INSTRUCTIONS

8. Re-install the bumper onto the truck.
9. Plug in all wire harnesses previously unplugged.
10. With tow hook nut plates in original position, slide the mounting brackets (A2) through the tow hook cutouts and bumper.
11. With the mounting brackets aligned with frame tow hook holes, re-install the tow hook bolts up through the bottom of the brackets and into the tow hook nut plates. *Do not fully tighten to allow for adjustment.*



Figure 7

12. Place the included nut plates (A3) up through the factory frame's square/rectangle shaped hole that falls immediately behind the new mounting bracket.



13. Install one M12 flange bolt up through frame and into nut plate. *Do not fully tighten to allow for adjustment.*

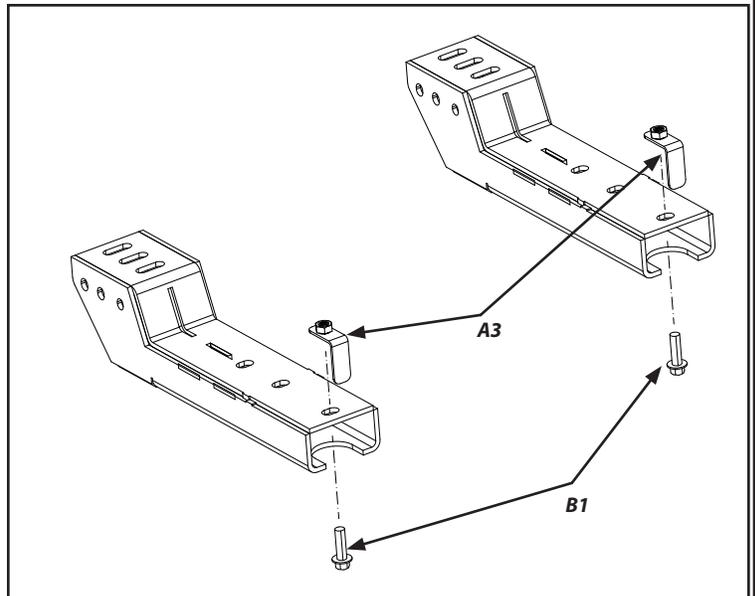


Figure 8

14. Place the carrier (sold separately) on the mounting brackets. Align holes and install the 1/2" hardware (B5, B6 & B7). Refer to exploded view on page 3. Keep hardware loose to allow for adjustment.
15. Install tow hooks (A1) with hardware (B2, B3 & B4) and B6 & B7). Refer to exploded view on page 3.
16. Center the carrier and tighten all hardware to torque specifications. **NOTE: Image shown with installed (optional) grille guard.**
17. Reconnect wiring harness.
18. The mount is ready for winch install at this point. Install the winch and wiring per the installation instructions provided with the winch.



Figure 9

CAUTION Always use assistance when moving or lifting heavy parts.

Installation is complete.

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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