



# 13382 INSTALLATION INSTRUCTIONS



Safety glasses should be worn at all times while installing this product.

YEARS: 2018-PRESENT

MAKE: SUBARU

MODEL: CROSSTREK

STYLE: 5-DOOR



**WARNING: NEVER EXCEED YOUR VEHICLE MANUFACTURER'S RECOMMENDED TOWING CAPACITY**  
For more information log onto [www.curtmfg.com](http://www.curtmfg.com) & for helpful towing tips log onto [www.hitchinfo.com](http://www.hitchinfo.com)

## WEIGHT CARRYING:

TRAILER WEIGHT: 3,500 LBS.  
TONGUE WEIGHT: 525 LBS.

PRO INSTALL TIME: 30 MIN.

NOVICE INSTALL TIME: 60 MIN.

IF YOU ARE HESITANT TO UNDERTAKE THIS TASK ON YOUR OWN, CONTACT AN AUTHORIZED CURT INSTALLER FOR ADDITIONAL ASSISTANCE.

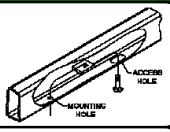
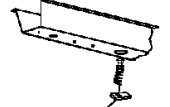

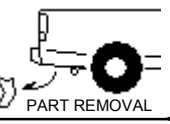
## INSTALLATION REQUIRES:

|   |  |   |
|---|--|---|
|   |  3/4" |  |
| RATCHET   | SOCKET   | TORQUE WRENCH   |
|  |       |   |
| DIE GRINDER   | SAFETY GLASSES   |   |
|   |  |   |
|   |  |   |

## INSTALLATION TIPS:

1. BEFORE YOU BEGIN INSTALLATION, READ ALL INSTRUCTIONS THOROUGHLY.
2. TO EASE INSTALLATION, 2 PEOPLE MAY BE REQUIRED.
3. USING PROPER TOOLS WILL GREATLY IMPROVE THE QUALITY OF THE INSTALL AND REDUCE THE TIME REQUIRED.
4. NEED HELP OR HAVE SOME QUESTIONS? CALL TECHNICAL SUPPORT AT 800.798.0813

## LEVEL OF DIFFICULTY: EASY

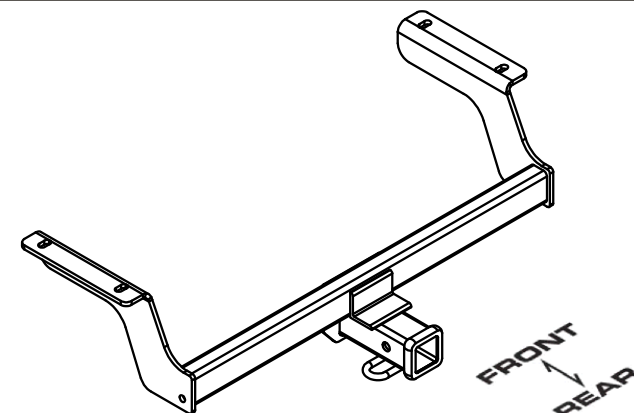
| EASY  | MODERATE                       | CHALLENGING |
|---|--------------------------------|-------------|
|    | FISHWIRE (2) FASTENERS         |             |
|   | REVERSE FISHWIRE (2) FASTENERS |             |
|  | ENLARGE ACCESS HOLES           |             |
|  | REMOVE (4) RUBBER PLUGS        |             |
|   |                                |             |

## VEHICLE PHOTO:



REPRESENTATIVE PHOTO

## HITCH ILLUSTRATION:



MAKE SURE YOUR HITCH MATCHES



SCAN FOR MORE INFO

**PERIODICALLY CHECK THIS RECEIVER HITCH TO ENSURE ALL FASTENERS ARE TIGHT AND ALL STRUCTURAL COMPONENTS ARE SOUND**

CURT Manufacturing LLC. warrants this product to be free of defects in material and/or workmanship at the time of retail purchase by the original purchaser. If the product is found to be defective, CURT Manufacturing LLC. may repair or replace the product at their option, when the product is returned, prepaid, with proof of purchase. Alteration to, misuse of, or improper installation of this product voids the warranty. CURT Manufacturing LLC.'s liability is limited to repair or replacement of products found to be defective, and specifically excludes liability for incidental or consequential loss or damage.

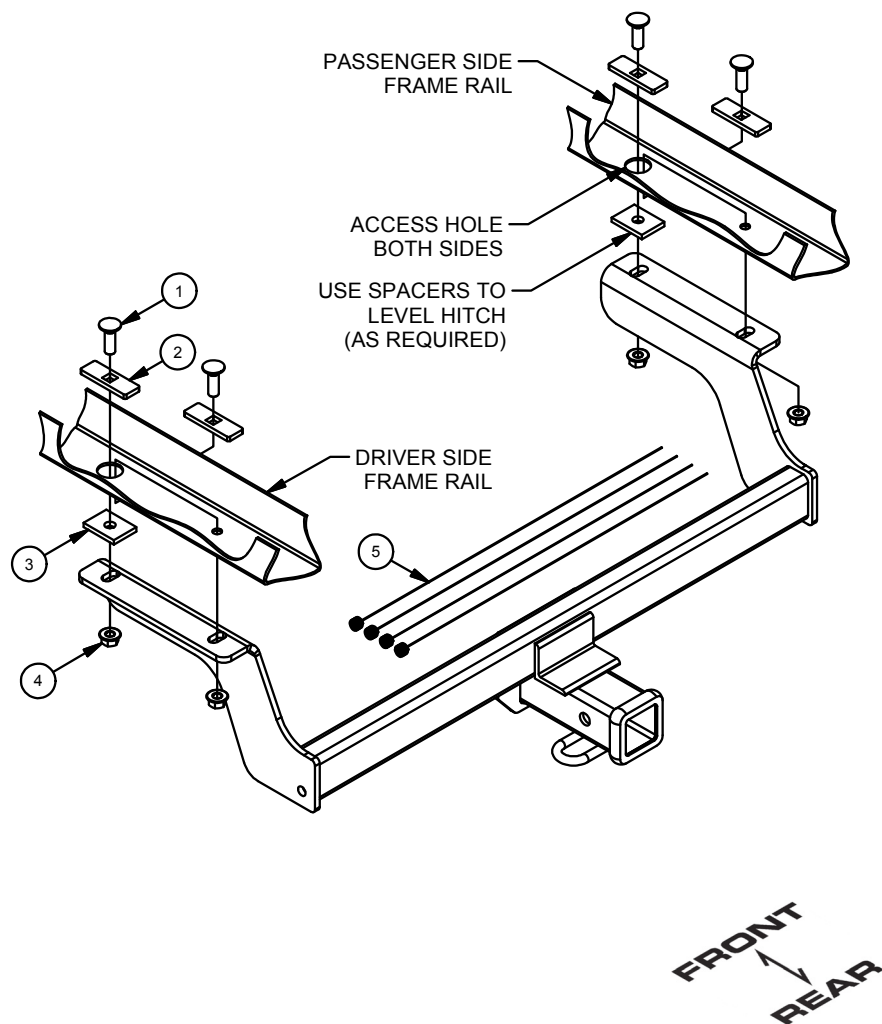
For more information log onto [www.curtmfg.com](http://www.curtmfg.com)

This product complies with safety specifications and requirements for connecting devices and towing systems of the state of New York, V.E.S.C.Regulation V-5 and SAE J684.

8/31/2017

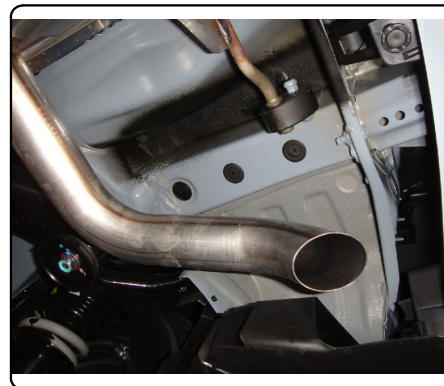
## INSTALLATION WALKTHROUGH:

| Parts List |     |                |  |
|------------|-----|----------------|--|
| ITEM       | QTY | PART NUMBER    | DESCRIPTION                            |
| 1          | 4   | 1/2-13 x 1 1/2 | CARRIAGE BOLT                          |
| 2          | 4   | CM-SP6         | .250 x 1.00 x 3.00" SQUARE HOLE SPACER |
| 3          | 2   | CM-SP16        | .250 x 1.50 x 2.00" ROUND HOLE SPACER  |
| 4          | 4   | HFN 1213       | HEX FLANGE NUT                         |
| 5          | 4   | 1_2 FISHWIRE   | 1/2" FISHWIRE                          |



For more information log onto [www.curtmfg.com](http://www.curtmfg.com)

1. Remove (2) rubber plugs from each frame rail and return to vehicle owner (leave center plugs in the frame).



2. Enlarge access holes and fishwire 1/2" carriage bolts and CM-SP6 spacers into position and reverse fishwire remaining 1/2" carriage bolts and CM-SP6 spacers into access hole. Leave fishwires attached.



## INSTALLATION WALKTHROUGH:

3. Raise hitch into position using CM-SP16 spacers to level hitch as necessary. Remove fishwires and loosely install (4) 1/2" hex flange nuts.

**NOTE:** Be careful not to push the bolts into the frame.



4. Torque all 1/2" fasteners to 110 lb-ft.

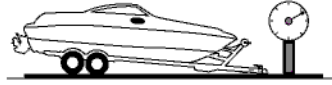


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## TOWING SAFETY INFORMATION

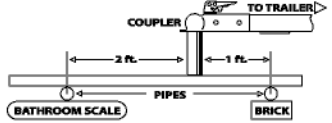
### Gross Trailer Weight / GTW

The Gross Trailer Weight is the weight of the trailer & cargo. Measure this by putting the fully loaded trailer on a vehicle scale.



### Tongue Weight / TW

The downward force that is exerted on the hitch ball by the coupler. The tongue weight will vary depending on where the load is positioned in relationship to the trailer axle(s). To measure the tongue weight, use either a commercial scale or a bathroom scale with the coupler at towing height. When using a bathroom scale with heavier tongue weights, use the method shown and multiply the scale reading by 3.



### Weight Carrying / WC

The total weight of both the trailer and the cargo inside. Never exceed the weight capacity of your trailer hitch.

### Weight Distribution / WD

Used to balance the weight of the cargo between the front and rear wheels throughout the trailer, allowing for better steering, braking, and level riding.



### Sway Control

A device used to reduce the lateral movements of the trailer that are caused by the wind. This works in conjunction with a weight distribution hitch. Do not use this on a class 1 or 2 hitch, or with surge brakes.

### How Much Can You Safely Tow?

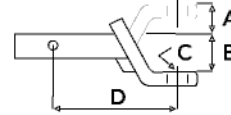
| TONGUE WEIGHT   | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 10,000 | 12,000 |
|---|------|------|------|------|------|------|------|------|--------|--------|
| Tongue weight should be about 10 to 15 percent of the gross trailer weight. |      |      |      |      |      |      |      |      |        |        |
| TRAILER TYPE  |      |      |      |      |      |      |      |      |        |        |
| CLASS 1   |      |      |      |      |      |      |      |      |        |        |
| CLASS 2   |      |      |      |      |      |      |      |      |        |        |
| CLASS 3   |      |      |      |      |      |      |      |      |        |        |
| CLASS 4   |      |      |      |      |      |      |      |      |        |        |
| CLASS 5   |      |      |      |      |      |      |      |      |        |        |
| Camper  | 11'  | 12'  | 13'  | 14'  | 15'  | 16'  |      |      |        |        |
| lbs.  | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 |      |      |        |        |
| Vacation  | 14'  | 16'  | 18'  | 20'  | 22'  | 24'  | 26'  | 28'  | 30'    | 32'    |
| lbs.  | 2100 | 2400 | 2700 | 3000 | 3300 | 3600 | 3900 | 4200 | 4500   | 4800   |
| Vacation  | 14'  | 16'  | 18'  | 20'  | 22'  | 24'  | 26'  | 28'  | 30'    | 32'    |
| lbs.  | 2800 | 3200 | 3600 | 4000 | 4400 | 4800 | 5200 | 5600 | 6000   | 6400   |
| 5th Wheel   |      |      |      |      |      |      |      |      |        |        |

Refer to owner's manual for towing capabilities and limitations.

### Ball Mount

The ball mount is placed inside the opening of the receiver hitch which is mounted to the vehicle. Make sure a hitch pin and clip is properly securing the ball mount to the receiver hitch before you begin towing.

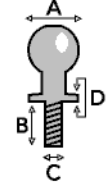
- A: Rise. B: Drop. C: Hole Size. D: Length.



### Trailer Ball

The connection from the hitch to the trailer. There are many factors that determine the correct hitch ball:

- Number one is the hitch ball's gross trailer weight rating.
- The mounting platform must be at least 3/8" thick.
- The hole diameter must not be more than 1/16" larger than the threaded shank.
- Every time you tow, check the nut and lock washer to make sure they are fastened securely.
- A: Ball Dia. B: Shank Length. C: Shank Dia. D: Shank Rise.



### Coupler

The component that is placed over the trailer ball to connect the vehicle to the trailer. Be sure that the coupler size matches the size of the hitch ball and that the coupler handle is securely fastened. To determine what size hitch ball you need for your application you will need to know the size of coupler that is on the trailer. Be sure your coupler is properly adjusted to the ball you are using.

NOTE: For added security the use of safety devices such as Coupler Safety Pins and Locks is strongly recommended.

### Safety Chains

Safety chains are a requirement and should be crossed under the tongue of the trailer so that the tongue will not drop to the road if it becomes separated from the hitch. Always leave enough slack so you can turn. Never allow the safety chains to drag on the ground and never attach the chains to the bumper.

Trailer Classification: Safety Chain Breaking Force - Minimum

Class 1: 2,000 lbs. (8.9 kN)

Class 2: 3,500 lbs. (15.6 kN)

Class 3: 5,000 lbs. (22.2 kN)

The strength rating of each length of safety chain or its equivalent and its attachments shall be equal to or exceed in minimum breaking force the GVWR (Gross Vehicle Weight Rating) of the trailer.

### Electrical

Trailer lights, Electric Brakes, Break-away systems - Every time you tow, be sure to check that all components are working properly.

Wiring identification by color:

|                    |                   |            |        |                 |                 |                |
|--------------------|-------------------|------------|--------|-----------------|-----------------|----------------|
| 7-WAY              |                   |            |        |                 |                 |                |
| 6-WAY              |                   |            |        |                 |                 |                |
| 5-WAY              |                   |            |        |                 |                 |                |
| 4-WAY              |                   |            |        |                 |                 |                |
| GREEN              | YELLOW            | BROWN      | WHITE  | RED             | BLUE            | PURPLE         |
| RIGHT TURN & BRAKE | LEFT TURN & BRAKE | TAILLIGHTS | GROUND | AUXILIARY POWER | ELECTRIC BRAKES | BACK-UP LIGHTS |

CURT DISCLAIMER: WIRING COLOR SHOWN WORK IN CONJUNCTION WITH CURT MANUFACTURING PRODUCTS.

13382

SUBARU CROSSTREK

4/10/2020

GROSS LOAD CAPACITY WHEN USED AS A WEIGHT CARRYING HITCH: 3,500 LBS. TRAILER WEIGHT & 525 LBS. TONGUE WEIGHT.



**WARNING: \*\*\* DO NOT EXCEED VEHICLE MANUFACTURER'S RECOMMENDED TOWING CAPACITY \*\*\***

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| Parts List |     |              |  |
|------------|-----|--------------|--|
| ITEM       | QTY | PART NUMBER  | DESCRIPTION                            |
| 1          | 4   | 10-10287     | BOLT,CAR,1/2-13 UNC,1-1/2,GRD8,YZ      |
| 2          | 4   | CM-SP6       | .250 x 1.00 x 3.00" SQUARE HOLE SPACER |
| 3          | 2   | CM-SP16      | .250 x 1.50 x 2.00" ROUND HOLE SPACER  |
| 4          | 4   | 20-00062     | NUT, SER-FLANGE,1/2-13 UNC,GRD8,YZ     |
| 5          | 4   | 1_2 FISHWIRE | 1/2" FISHWIRE                          |

**FISHWIRE TECHNIQUE**

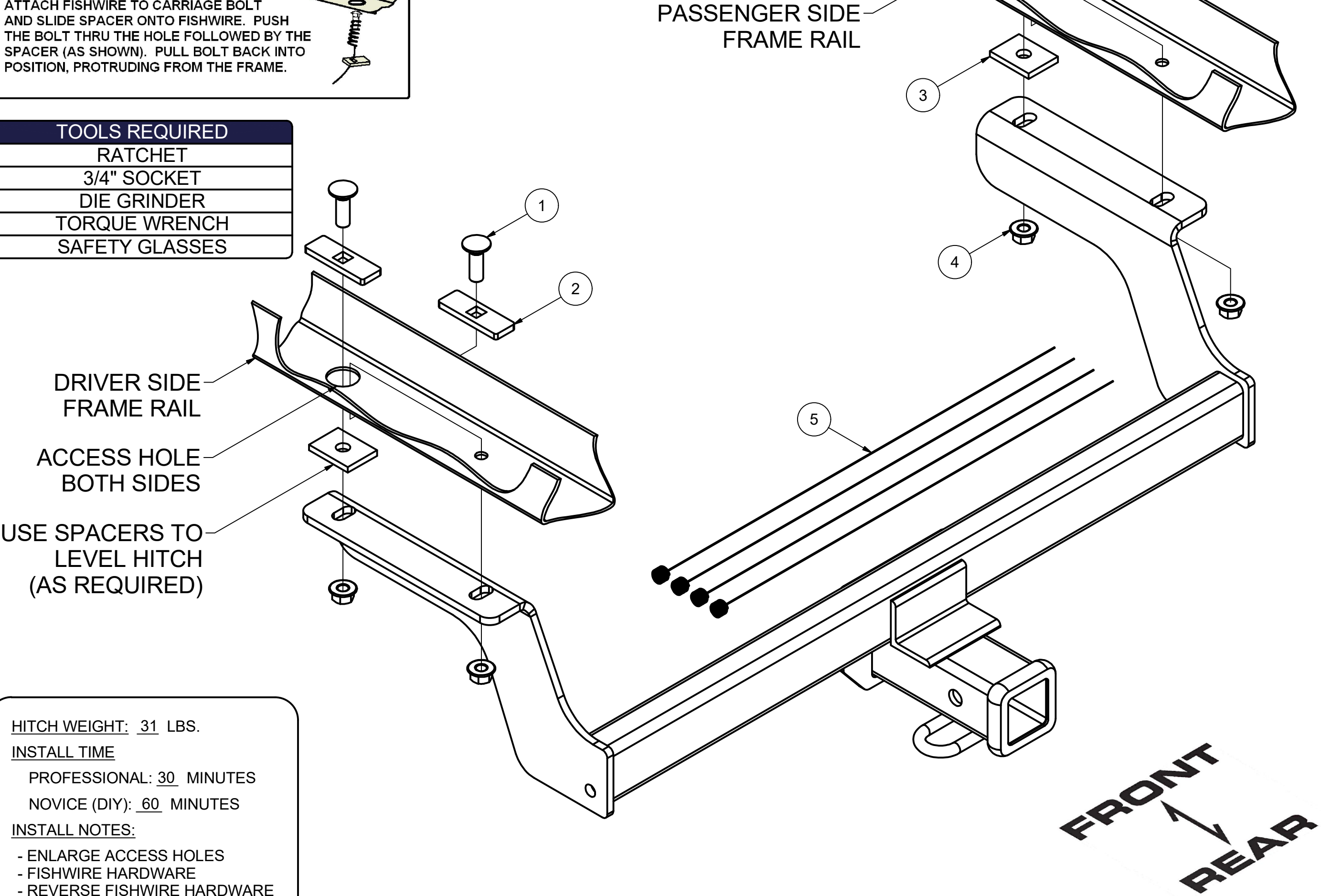
INSERT COILED END OF FISHWIRE TOOL THROUGH HITCH MOUNTING HOLE IN VEHICLE FRAME RAIL AND OUT THE ACCESS HOLE. PASS COILED END OF FISHWIRE THROUGH SPACER AND THREAD BOLT INTO COIL. KINK WIRE TO KEEP SPACER SEPARATE FROM BOLT AS SHOWN. PULL FISHWIRE, SPACER, AND BOLT THROUGH FRAME AND OUT MOUNTING HOLE. USE FISHWIRE TO GUIDE HITCH DURING MOUNTING AND PREVENT LOSS OF BOLT / SPACER INSIDE FRAME RAIL.

\*\*NOTE: SOME VEHICLES MAY FISHWIRE THROUGH END OF FRAME\*\*

**REVERSE PULL FISHWIRE TECHNIQUE**

ATTACH FISHWIRE TO CARRIAGE BOLT AND SLIDE SPACER ONTO FISHWIRE. PUSH THE BOLT THRU THE HOLE FOLLOWED BY THE SPACER (AS SHOWN). PULL BOLT BACK INTO POSITION, PROTRUDING FROM THE FRAME.

| TOOLS REQUIRED |  |
|----------------|--|
| RATCHET        |  |
| 3/4" SOCKET    |  |
| DIE GRINDER    |  |
| TORQUE WRENCH  |  |
| SAFETY GLASSES |  |



**HITCH WEIGHT:** 31 LBS.

**INSTALL TIME**

PROFESSIONAL: 30 MINUTES

NOVICE (DIY): 60 MINUTES

**INSTALL NOTES:**

- ENLARGE ACCESS HOLES
- FISHWIRE HARDWARE
- REVERSE FISHWIRE HARDWARE

INSTALLATION STEPS

1. Remove (2) rubber plugs from each frame rail and return to vehicle owner (leave center plugs in the frame).
2. Enlarge access holes and fishwire 1/2" carriage bolts and CM-SP6 spacers into position and reverse fishwire remaining 1/2" carriage bolts and CM-SP6 spacers into access hole. Leave fishwires attached.
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Scan for more information

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