

YEARS: 2015-PRESENT

MAKE: FORD

MODEL: F-150

STYLE: TRUCK

**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: 10,000 LBS.  
 TONGUE WEIGHT: 1,000 LBS.

**WEIGHT DISTRIBUTION:**  
 TRAILER WEIGHT: 12,000 LBS.  
 TONGUE WEIGHT: 1,200 LBS.

**PRO INSTALL TIME: 25 MIN.**  
**NOVICE INSTALL TIME: 50 MIN.**

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


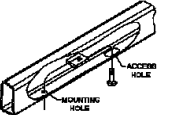
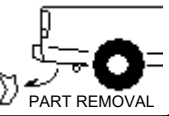
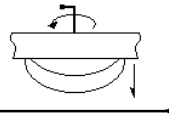
**INSTALLATION REQUIRES:**

|  |   |   |
|--|---|---|
| <br><b>RATCHET</b>       | <br><b>TORQUE WRENCH</b> | <br><b>15/16" 13mm 10mm SOCKET</b> |
| <br><b>MASKING TAPE</b> |   |   |
|  |   |   |
|  |   |   |

**INSTALLATION TIPS:**

- BEFORE YOU BEGIN INSTALLATION, READ ALL INSTRUCTIONS THOROUGHLY.
- TO EASE INSTALLATION, 2 PEOPLE MAY BE REQUIRED.
- USING PROPER TOOLS WILL GREATLY IMPROVE THE QUALITY OF THE INSTALL AND REDUCE THE TIME REQUIRED.
- NEED HELP OR HAVE SOME QUESTIONS? CALL TECHNICAL SUPPORT AT 877.287.8634

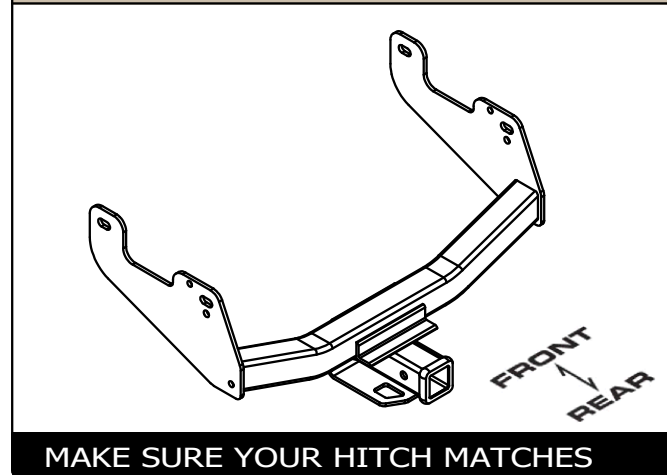
**LEVEL OF DIFFICULTY: EASY**

| EASY  | MODERATE                                   | CHALLENGING |
|---|--|-------------|
|    | NO DRILLING REQUIRED                       |             |
|   | FISHWIRING REQUIRED                        |             |
|  | IF PRESENT TEMPORARILY REMOVE GROUND CABLE |             |
|  | LOWER SPARE TIRE                           |             |
|   |  |             |

**VEHICLE PHOTO:**



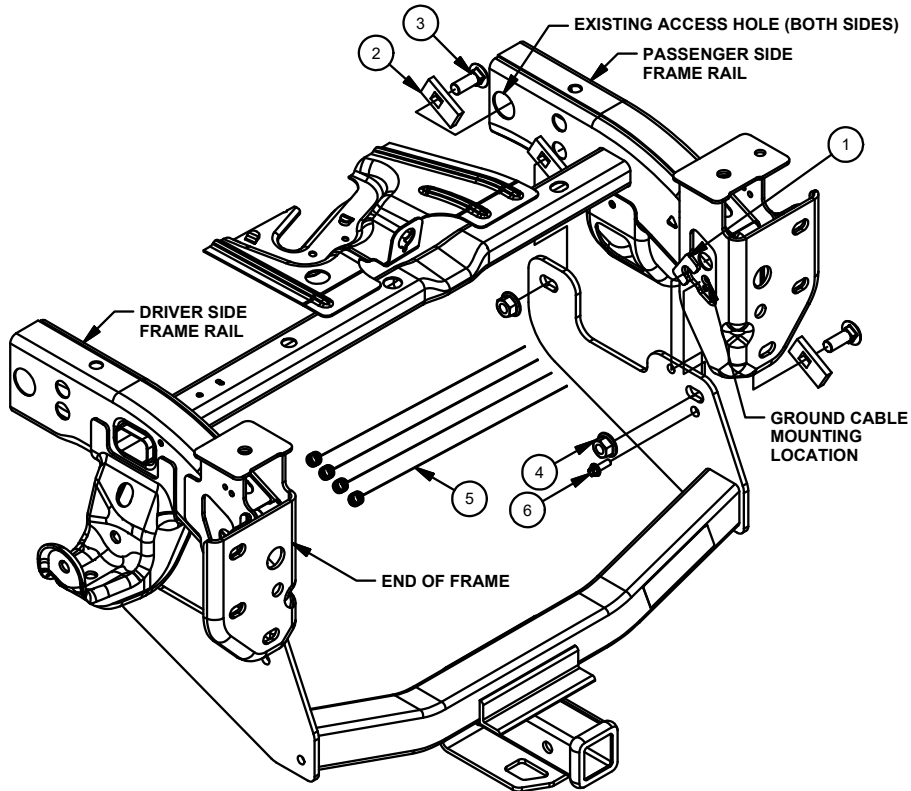
**HITCH ILLUSTRATION:**



**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.

# INSTALLATION WALKTHROUGH:

| Parts List |     |              |  |
|------------|-----|--------------|--|
| ITEM       | QTY | PART NUMBER  | DESCRIPTION                            |
| 1          | 2   | CM-SP27      | .188 x 1.00 x 2.00" U-SHAPE SPACER     |
| 2          | 6   | CM-SP9       | .375 x 1.25 x 2.50" SQUARE HOLE SPACER |
| 3          | 4   | 10-10292     | BOLT,CAR,5/8-11 UNC,1-3/4,GRD8,YZ      |
| 4          | 4   | 20-00105     | NUT,SER-FLANGE,5/8-11 UNC,GRD8,YZ      |
| 5          | 4   | 5_8 FISHWIRE | 5/8" FISHWIRE                          |
| 6          | 1   | 10-10268     | FB,M8x1.25,25,CL10.9,YZ                |



**FISHWIRE TECHNIQUE**

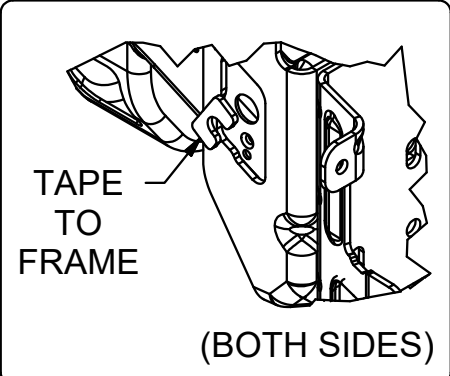
INSERT COILED END OF FISHWIRE TOOL THROUGH HITCH MOUNTING HOLE IN VEHICLE FRAME RAIL AND OUT THE ACCESS HOLE. PASS COILED END OF FISHWIRE THROUGH SPACER AND THREAD BOLT INTO COIL. KINK WIRE TO KEEP SPACER SEPARATE FROM BOLT AS SHOWN. PULL FISHWIRE, SPACER, AND BOLT THROUGH FRAME AND OUT MOUNTING HOLE. 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\*\***

1. If present, remove the grounding cable from the rear of the passenger side frame rail. Return fastener to owner. Lower spare tire for installation.



2. For the rearward most holes, tape a U-shaped spacer into the recess in the frame. Thread the forward most fishwires through another rectangular spacer on each side and then thread all of the fishwires through their appropriate mounting holes.



## INSTALLATION WALKTHROUGH:

3. Fishwire (2) 5/8" carriage bolts and spacers through either an access hole or the end of the frame rail. Leave them in the frame with the fishwires attached. Repeat for other side.



4. Raise hitch into position and pull the fishwires so the bolts are in their final position. Remove the fishwires carefully and loosely install the supplied 5/8" hex flange nuts. Reinstall the grounding cable with the supplied 8mm fastener, if removed in step 1.



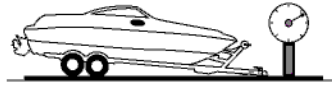
5. Torque all 5/8" fasteners to 210 lb-ft.  
Raise spare tire back into position.



## TOWING SAFETY INFORMATION

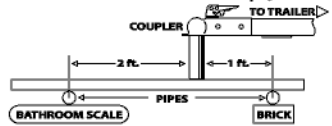
### Gross Trailer Weight / GTW

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?

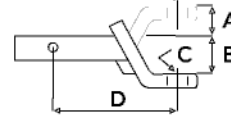
| TONGUE WEIGHT (lb)  | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 10,000 | 12,000 |
|---|------|------|------|------|------|------|------|------|--------|--------|
| Tongue weight should be about 10 to 15 percent of the gross trailer weight. |      |      |      |      |      |      |      |      |        |        |
| CLASS 1   |      |      |      |      |      |      |      |      |        |        |
| CLASS 2   |      |      |      |      |      |      |      |      |        |        |
| CLASS 3   |      |      |      |      |      |      |      |      |        |        |
| CLASS 4   |      |      |      |      |      |      |      |      |        |        |
| CLASS 5   |      |      |      |      |      |      |      |      |        |        |
| TRAILER TYPE  |      |      |      |      |      |      |      |      |        |        |
| Camper  | 11'  | 12'  | 13'  | 14'  | 15'  | 16'  |      |      |        |        |
| lbs.  | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 |      |      |        |        |
| Vacation  | 18'  | 19'  | 20'  | 22'  | 24'  | 26'  | 28'  | 30'  | 32'    |        |
| lbs.  | 2100 | 2400 | 2700 | 3000 | 3300 | 3600 | 3900 | 4200 | 4500   | 4800   |
| Vacation  | 18'  | 19'  | 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.

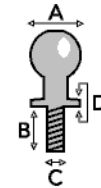
- A: Rise. B: Drop. C: Hole Size. D: Length.



### 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)

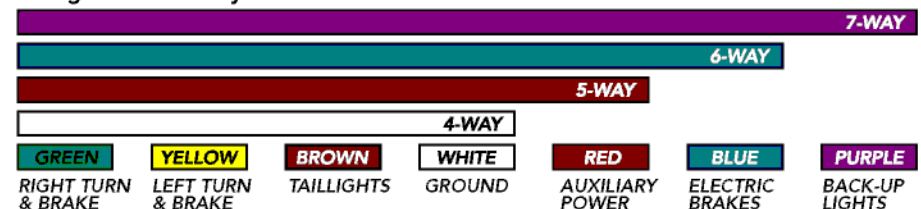
Class 3: 5,000 lbs. (22.2 kN)

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:



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

14016

FORD F-150

7/28/2020

GROSS LOAD CAPACITY WHEN USED AS A WEIGHT CARRYING HITCH: 10,000 LBS. TRAILER WEIGHT & 1,000 LBS. TONGUE WEIGHT.  
GROSS LOAD CAPACITY WHEN USED AS A WEIGHT DISTRIBUTION HITCH: 12,000 LBS. TRAILER WEIGHT & 1,200 LBS. TONGUE WEIGHT

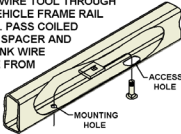
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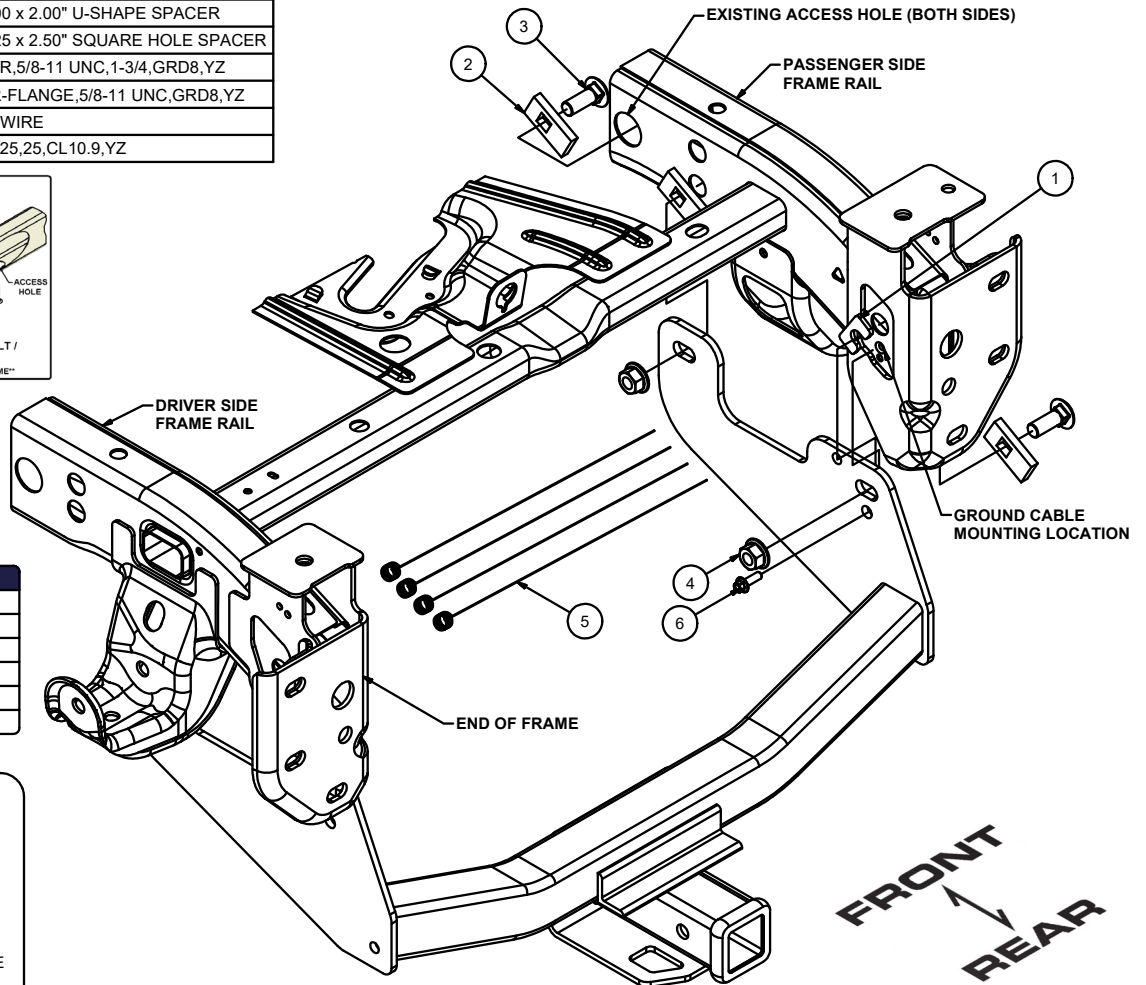
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#### TOOLS REQUIRED

RATCHET  
TORQUE WRENCH  
15/16" SOCKET  
13mm SOCKET  
10mm SOCKET  
MASKING TAPE

HITCH WEIGHT: 48 LBS.

#### INSTALL TIME

PROFESSIONAL: 25 MINUTES

NOVICE (DIY): 50 MINUTES

#### INSTALL NOTES:

- NO DRILLING REQUIRED
- FISHWIRING REQUIRED
- IF PRESENT TEMPORARILY REMOVE GROUND CABLE
- LOWER SPARE TIRE

## INSTALLATION STEPS

1. If present, remove the grounding cable from the rear of the passenger side frame rail. Return fastener to owner. Lower spare tire for installation.
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Scan for more information

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