

Mumby Manufacturing Ltd.

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INSTALLATION INSTRUCTIONS

MUMBY REMOVABLE BALL GOOSENECK HITCH

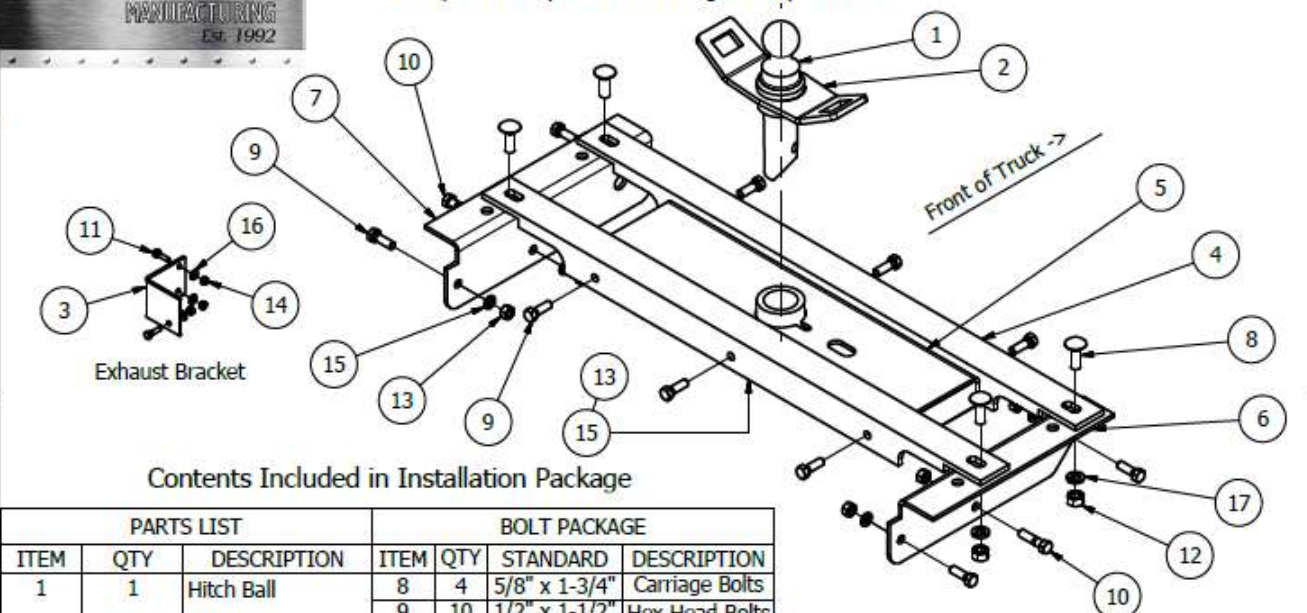
Model MUM – 0471611

Fits 1986 – 2015 Ford F250/F350 & 2002 and Older Dodge 1500, 2500 and 3500 Trucks



Mumby Manufacturing Ltd.
MUMBY REMOVABLE BALL GOOSENECK HITCH
Model MUM - 471611
Fits All years Ford Super Duties & All Dodge Trucks prior to 2003

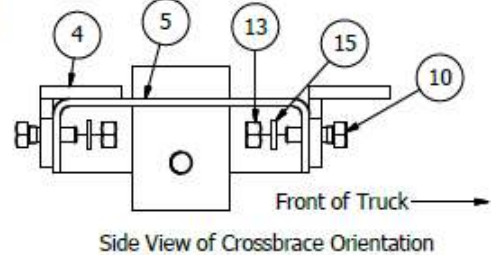
Installation Overview



Exhaust Bracket

Contents Included in Installation Package

PARTS LIST			BOLT PACKAGE			
ITEM	QTY	DESCRIPTION	ITEM	QTY	STANDARD	DESCRIPTION
1	1	Hitch Ball	8	4	5/8" x 1-3/4"	Carriage Bolts
2	1	Safety Chain Plate	9	10	1/2" x 1-1/2"	Hex Head Bolts
			10	2	1/2" x 2"	Hex Head Bolts
			11	3	1/4" x 1"	Hex Head Bolts
3	1	Exhaust Bracket	12	4	5/8"	Hex Nuts
			13	12	1/2"	Hex Nuts
			14	3	1/4"	Hex Nuts
4	2	Crossbrace	15	12	1/2"	Lock Washers
			16	3	1/4"	Lock Washers
			17	4	5/8"	Lock Washers
6	1	Right Side Bracket	18	2	1/2"	Flat Washers
			19	8	5/8"	Flat Washers
7	1	Left Side Bracket	20	1	1/2"	Fish Wire



Side View of Crossbrace Orientation

1. Mark the receiver hole location, centered between the wheel wells and from the back of the box as follows:

F250 and F350	1986 – 2010	44.5"
F250 and F350	2011 & newer	46" (Factory divot in box floor)

NOTE: Measurement is the same for short and long boxes

2002 and Older Dodge Short Box (All Models) 40.5

2002 and Older Dodge Long Box (All Models) 45.5

2. Drill an 1/8" pilot hole in the receiver hole location and two 1/2" holes 5" and 5 3/4" to the passenger side of the receiver hole location. These holes are used to release the ball latch and to provide a view of the locking pin.
3. Using a 3-1/2" hole saw, cut the receiver hole in the box floor using the 1/8" pilot hole as a guide.
4. For Ford trucks lower exhaust with the bracket provided.
5. Cut out a 3/4" high and 2" wide (bottom of box flange) on the driver's side of the truck approximately 2-1/2" behind the front box support brace to slide 2-1/2" angle iron cross members through.
6. Slide one cross member through notch (Open angle will face towards front of truck on both cross members). Install 5/8" carriage head bolts in slotted holes on each end of cross member before moving cross member towards back of truck. Repeat step with remaining cross member.



For 2010 and newer Ford trucks follow steps 7, 8, 9, 10 & 13. For older model Ford and Dodge trucks follow steps 7, 11, 12 & 13.

7. Install cross members to center plate with 1/2" bolts and lock nuts. (Do not tighten).
8. Bolt the 17" bracket (The one with the corner cut on an angle) on the passenger side of the truck and the 18" bracket on the driver's side, to the angle iron cross members with carriage head bolts and locking nuts provided.
9. **NOTE:** Spacers (4) 5/8" fender washers on each side must be installed between the center hole in the mounting bracket and the curved frame of the truck. The 2" mounting bolt is then inserted through the bracket, spacers, frame, a 1/2" fender washer and a lock nut.

10. From the outside of the truck frame, insert the bolts on the driver's side bracket through the back and middle hole in the bracket and matching holes in the truck frame. The middle hole requires a flat washer on the inside of the larger hole in the truck frame. The lock nuts can now be installed on these two bolts but not tightened.
11. A fish wire has been supplied to pull the front bolt on the driver's side through the hole from the inside of the truck frame outwards. A non-locking hex nut and lock washer is used to fasten the bolt to the side bracket. Tighten the ball assembly to the cross members.
12. Tighten the ball assembly to the cross members. Center the receiver bushing in the hole in the floor ensuring the hitch assembly is square with the truck and the top of the ball receiver bushing is not higher than $\frac{1}{4}$ " below the top floor rib of the truck box. **NOTE:** Temporary blocking may be required on some models, to achieve proper height. Tighten the side brackets to the cross members. **BE SURE ALL LINES & WIRES ARE OUT OF THE WAY BEFORE DRILLING.**
13. Drill $\frac{1}{2}$ " holes in the truck frame, matching the holes in the angle brackets, and fasten with $\frac{1}{2}$ " hex head bolts.
14. Tighten all remaining bolts.
For proper maintenance, the ball MUST be removed regularly and the shank of the ball and the locking pin cleaned and lightly coated with a light lubricant. Periodic lubrication and cleaning of the ball shank is necessary for your removable ball hitch to keep performing properly.

Components in the MUM – 0471611

Center Box Part # 650

Mounting Box Part # 611

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