

Heavy Duty Fold-Away™ Coupler/Bracket Kit



Read, Understand, Follow and Save These Instructions

Read, understand and follow all instructions and warnings (Instructions) before installing and using this product. Install and use this product only as specified in these instructions. Improper installation or use of this product may result in property damage, serious injury, and/or death. Never allow installation or use of this product by anyone without providing them with these instructions. You must read, understand and follow all instructions and warnings for any product(s) to which this product is used in conjunction with or installed. Save these instructions with the product for use as a reference for any future installation and use of the product.

- Refer to Fulton Coupler Owner's Manual, F1937, for coupler warnings, instructions, and installations.

⚠ WARNING

Failure to follow all warnings and instructions may result in product failure, property damage, serious bodily injury, and/or death.

- Purchaser/owner must ensure that product is installed according to these instructions. Purchaser/owner must not alter or modify product.
- Operator and bystanders should never position any part of body under any portion of this product or the load being supported.
- Do not allow children to play on or around this product or the load being supported.
- Never exceed maximum rated capacity of coupler, actuator, trailer or pivot length / GTWR. Refer to stamped markings or decals on the coupler and actuator to obtain rated capacity.
- The rated capacity of pivot brackets is as specified on the attached.
- Weigh your trailer plus added load. Do not exceed lesser of coupler, hitch, hitch ball, vehicle or trailer weight ratings.

- Do not attach safety chains to the coupler, swing tongue or their existing hardware. Safety chains' attachment point must be behind castings on the trailer tongue.
 - Mount Fold-Away products to trailer tongues made only of steel. Trailer tongues to be 2"x3", 3"x3", 3"x4", or 3"x5" outside dimensions with a material thickness between .188" and .120".
 - All welding must be performed by a certified AWS welder.
- Before Towing:**
- Check swing tongue for signs of wear or damage. Refer to Installation Instructions for proper torque. Replace any worn or damaged components with Fulton components.
 - Ensure safety chains are long enough for tight turns but not dragging and are properly connected to the towing vehicle and trailer (crossed, right to left and left to right).

- Ensure that all trailer lighting is hooked up and working correctly.
- Check that the wiring is properly connected but loose enough to make turns without disconnecting or damage. Be sure that wiring is not dragging and clear of safety chains.
- When pivoting coupler be sure wiring and brake lines are not pinched between hinges. Pinching could damage wiring/lines.
- Be sure that pivot bolt/locknut and hinge pin/hairpin cotter pin are installed and secured with the coupler in the towing position before towing.
- Contact trailer manufacturer for replacement labeling removed from trailer during installation.

Installation Instructions

Warning: Failure to follow all warnings and instructions may result in product failure, property damage, serious bodily injury, and/or death.

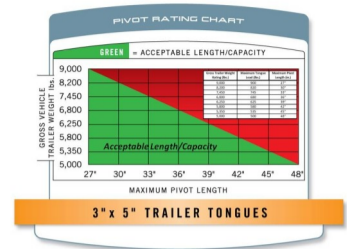
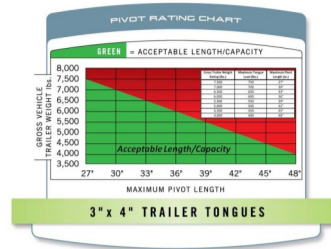
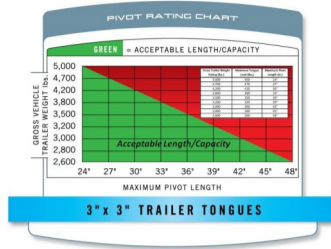
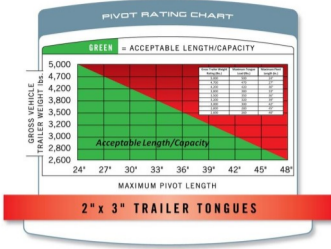
Prior to working on modifying your trailer, ensure that the following safety precautions are taken:

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| <ul style="list-style-type: none"> • Read, understand and follow all tool manufacturers' safety instructions. • Always wear safety glasses and protective gloves. • Use a jack stand (not the trailer jack) to support tongue. Chock all tires/wheels to ensure stable working conditions on trailer. | <ul style="list-style-type: none"> • Do not mount any accessories to Fold-Away tongue (i.e. jack, spare tire carrier, winch stand). • Remove any wiring and brake lines from trailer tongue prior to any cutting or drilling. Upon completion of installation, all wiring/lines should be properly re-routed and connected. | <ul style="list-style-type: none"> • Use only the mounting hardware supplied for installing Fold-Away tongue. |
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Required Tools

| | | |
|---------------------------------------|--------------------------------------|-------------------------------|
| 1/2" Drive Ratchet | 15/16" Open End Wrench & Socket | 3/4" Open End Wrench & Socket |
| 7/16" Socket (for Torx bit) | Metal Cutting Saw | 1/2" Chuck Drill |
| Drill Bits (1/8", 1/4", 3/8", & 1/2") | Torque Wrench (Capable of 80 ft-lbs) | Tape Measure |
| Safety Glasses | Gloves | Centerpunch |
| Clamp | Square | Hammer |
| Jack Stand | Wheel Chocks | |

Installation Instructions (Cont.)



| 2x3 | | |
|------------------------------------|-------------------------|-------------------------|
| Gross Trailer Weight Rating (lbs.) | Max. Tongue Load (lbs.) | Max. Pivot Length (in.) |
| 5,000 | 500 | 24" |
| 4,700 | 470 | 27" |
| 4,200 | 420 | 30" |
| 3,800 | 380 | 33" |
| 3,500 | 350 | 36" |
| 3,200 | 320 | 39" |
| 3,000 | 300 | 42" |
| 2,800 | 280 | 45" |
| 2,600 | 260 | 48" |

| 3x3 | | |
|------------------------------------|-------------------------|-------------------------|
| Gross Trailer Weight Rating (lbs.) | Max. Tongue Load (lbs.) | Max. Pivot Length (in.) |
| 5,000 | 500 | 24" |
| 4,700 | 470 | 27" |
| 4,200 | 420 | 30" |
| 3,800 | 380 | 33" |
| 3,500 | 350 | 36" |
| 3,200 | 320 | 39" |
| 3,000 | 300 | 42" |
| 2,800 | 280 | 45" |
| 2,600 | 260 | 48" |

| 3x4 | | |
|------------------------------------|-------------------------|-------------------------|
| Gross Trailer Weight Rating (lbs.) | Max. Tongue Load (lbs.) | Max. Pivot Length (in.) |
| 7,500 | 750 | 27" |
| 7,000 | 700 | 30" |
| 6,500 | 650 | 33" |
| 6,000 | 600 | 36" |
| 5,500 | 550 | 39" |
| 5,000 | 500 | 42" |
| 4,500 | 450 | 45" |
| 4,000 | 400 | 48" |

| 3x5 | | |
|------------------------------------|-------------------------|-------------------------|
| Gross Trailer Weight Rating (lbs.) | Max. Tongue Load (lbs.) | Max. Pivot Length (in.) |
| 9,000 | 900 | 27" |
| 8,200 | 820 | 30" |
| 7,450 | 745 | 33" |
| 6,800 | 680 | 36" |
| 6,250 | 625 | 39" |
| 5,800 | 580 | 42" |
| 5,350 | 535 | 45" |
| 5,000 | 500 | 48" |

Measure and Cut Trailer Tongue Section

- Before starting, be certain to follow all safety precautions as described in these instructions.
- Support trailer tongue with jack stand behind the approximate area of trailer tongue removal.
- Measure from the center of coupler ball pocket the desired swing length back and mark (see illustration and chart for maximum lengths). Be certain the mark is at least 5" from any obstruction (i.e. winch stand, jack bracket, etc.). Using a square, scribe a line around trailer tongue to indicate cut location. Before cutting, verify measurements.
- Remove all wiring and brake lines from the trailer tongue so it is not cut or damaged during installation.
- Cut trailer tongue along scribe line, being certain to follow all safety and operating guidelines of products used. Be careful of sharp edges or burrs and remove if present.

Drill and Attach Safety Chains

- Along each side of trailer tongue, measure 4" from cut end and mark. Measure 1" up from bottom and mark (see illustration). At line intersections, use centerpunch to mark drill locations for safety chain bolts. Drill to 1/2".
- Secure safety chains using two separate 1/2" bolts and locknuts for each. Torque to 45 ft-lbs.

Drill and Attach Castings (Bolt-On Instructions)

- Place "male casting" on trailer tongue until tube meets the stops inside the casting making sure it is straight. Temporarily secure with clamp.
- Using transfer punch, mark locations of holes on trailer tongue, top and bottom. With centerpunch, expand locator marks for drilling.
- Remove casting and drill 1/8" holes at centermarks. Be sure to drill square to the trailer tongue. Only drill through one side at a time.
- Increase the 1/8" diameter holes to 1/4" holes. Then increase the 1/4" diameter holes to 3/8". Increase again to 1/2". Carefully remove metal shavings and burrs.
- Replace male casting over trailer tongue as shown below and loosely attach the special shoulder bolts and flange nuts. Tighten all eight fasteners with 3/4" box end wrench and T55 Torx bit. Torque each to 75 ft-lbs.
- Place remaining casting over swing tongue and attach in the same manner as previously described making sure the coupler holes are positioned correctly. When using Bracket Kits only (HDP models), reuse trailer coupler/tongue and follow previous instructions starting from step 8 to attach remaining casting.

- Attach swing tongue to trailer tongue by mating castings together. Apply light grease to 5/8" pivot bolt. Secure through the castings with 5/8" locknut and torque to 50 ft-lbs.
- Insert lightly greased hinge pin through top of castings. Secure hinge pin with hairpin cotter.
- Remove hinge pin and pivot swing tongue to verify that system works correctly. If product is to be primed, painted, or galvanized any excess buildup will need to be removed. Make sure operation has not been impaired.

Rerouting Wiring, Brake Lines and Chains

- Pull trailer wiring back through the trailer section and into the swing tongue. Make sure to reattach any ground wires that may have needed to be removed during installation.
- Route wiring through swing tongue in a way to prevent wiring from rubbing on sharp edges. A wire grommet is included on HPB models.
- Place coupler over swing tongue and secure. Use (1) 1/2-13 x 4.00" hex bolt through rear holes of coupler and 1/2-13 x 1.25" hex bolts for forward holes. Secure with 1/2" locknuts and torque to 75 ft-lbs. Refer to Fulton Coupler Owner's Manual, F1937, for coupler warnings, instructions, and installations.
- Route safety chains through guide on bottom of swing tongue. Check that safety chains are long enough to reach a tow vehicle and will not bind or drag during normal towing conditions.

- Close swing tongue, being certain not to pinch wires and lock into place with hinge pin. Ensure that the hairpin cotter is in place through the hinge pin. Check for proper operation of trailer lighting. Trailer is now ready for towing.

Attach Castings (Weld-On Instructions)

- All welding must be performed by a certified AWS welder. Perform the previous instructions replacing steps 9 thru 12 with the following.
- Making sure casting is straight and fully seated on the tongue tube. Weld complete on all four sides using a 3/16" minimum fillet weld.
- Proceed back to step 13 to complete.

Attach Casting (In-Line Actuator)

- An optional actuator end casting is designed to fit the Fulton in-line actuator. To attach, use 1/2" dia. grade-5 bolts and lock washers and torque to 75 ft-lbs.

