LIPPERT COMPONENTS®

POWER TONGUE JACK



Power Tongue Jack

Installation and Owner's Manual

(For Aftermarket Applications)

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Power Tongue Jack Aftermarket Kit	
Part #	**Description**
285318	Power Tongue Jack with Footpad Kit and Manual Crank Handle

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Introduction

The Power Tongue Jack is used with travel trailer A-frame applications. The textured casing helps protect from chips and cracks. Four LED lights provide excellent illumination while reducing power consumption. Helical cut gears reduce noise and improve operating efficiency. Enhanced rocker switch improves its durability. The Power Tongue Jack has a 30 Amp rating, 18" Stroke with a 3,500-lb capacity.

NOTE: The power tongue jack is designed for vertical movement of the trailer only.

NOTE: Images used in this document are for reference only when assembling, installing and/or operating this product. Actual appearance of provided and/or purchased parts and assemblies may differ.

Additional information about this product can be obtained from lci1.com/support or by downloading the free myLCI app. The app is available on iTunes® for iPhone® and iPad® and also on Google Play™ for Android™ users.

iTunes®, iPhone®, and iPad® are registered trademarks of Apple Inc. Google Play™ and Android™ are trademarks of Google Inc.

Information regarding the assembly and components of this product can be obtained from https://support.lci1.com/tongue-jacks-support-power-tongue-jack.

Safety

Read and fully understand all instructions before installing or operating this product. Adhere to all safety labels.

This manual provides general instructions. Many variables can change the circumstances of the instructions, i.e., the degree of difficulty, operation and ability of the individual performing the instructions. This manual cannot begin to plot out instructions for every possibility, but provides the general instructions, as necessary, for effectively interfacing with the device, product or system. Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and/or property damage, including voiding of the LCI limited warranty.

⚠ WARNING

THE "WARNING" SYMBOL ABOVE IS A SIGN THAT A SAFETY RISK IS INVOLVED AND MAY CAUSE DEATH, SERIOUS PERSONAL INJURY AND/OR SEVERE PRODUCT OR PROPERTY DAMAGE IF NOT SAFELY ADHERED TO AND WITHIN THE PARAMETERS SET FORTH IN THIS MANUAL.

⚠ WARNING

FAILURE TO FOLLOW INSTRUCTIONS PROVIDED IN THIS MANUAL MAY RESULT IN DEATH, SERIOUS PERSONAL INJURY AND/OR SEVERE PRODUCT AND PROPERTY DAMAGE, INCLUDING VOIDING OF THE COMPONENT WARRANTY.

⚠ WARNING

THE TRAILER MUST BE SUPPORTED PER MANUFACTURER'S RECOMMENDATIONS BEFORE WORKING UNDERNEATH. FAILURE TO DO SO MAY RESULT IN DEATH OR SERIOUS INJURY.

⚠ CAUTION

THE "CAUTION" SYMBOL ABOVE IS A SIGN THAT A SAFETY RISK IS INVOLVED AND MAY CAUSE PERSONAL INJURY AND/OR PRODUCT OR PROPERTY DAMAGE IF NOT SAFELY ADHERED TO AND WITHIN THE PARAMETERS SET FORTH IN THIS MANUAL

⚠ CAUTION

MOVING PARTS CAN PINCH, CRUSH, OR CUT. KEEP CLEAR AT ALL TIMES.

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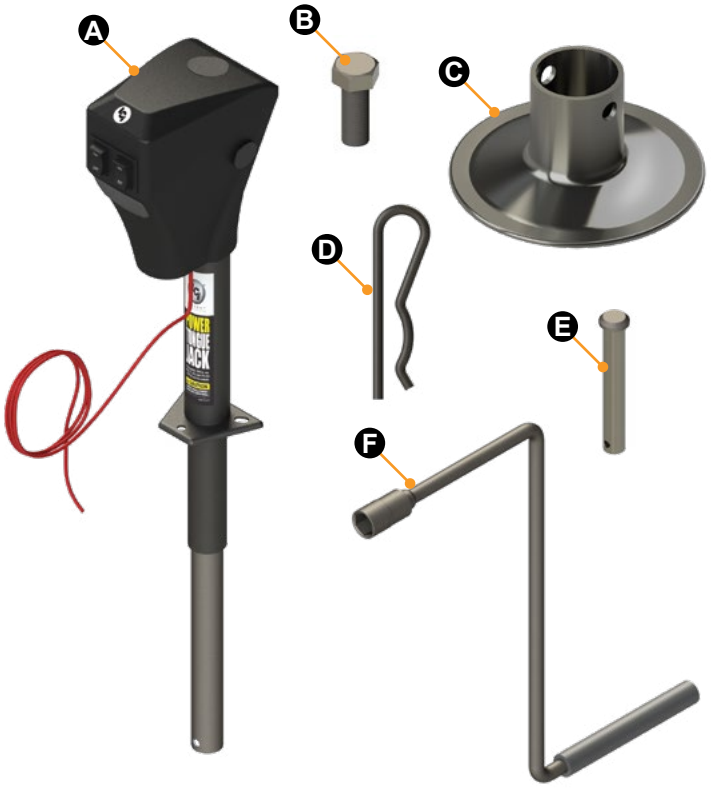
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Parts List

NOTE: Part numbers are shown for identification purposes only. Not all parts are available for individual sale. All parts with a link to the Lippert Store can be purchased.



Power Tongue Jack Aftermarket Kit PN 285318			
Letter	**PN**	**Description**	**Qty**
A	181794	Power Tongue Jack	1
	116112	Manual Crank Handle (replacement crank handle may vary in style)	1
Replacement Parts Available			
B	808266	3/8" - 16 x 1" Bolt (3 total required)	1
C	165253	Footpad	1
D	118105	Cotter Pin	1
E	382844	Clevis Pin	1
F	285324	Crank Handle (may vary in style)	1

NOTE: Make sure to inspect the packing material, front, back and underneath for all Power Tongue Jack parts.

Resources Required

- Cordless or Electric Drill or Screw Gun
- Appropriate Drive Bits
- 9⁄16" Socket
- Appropriate loom, size cut to length

Prior to Installation

1. Remove the footpad from the Power Tongue Jack (if necessary).

A. Remove the hairpin cotter pin **(Fig.1D)** and clevis pin **(Fig.1C)** holding the footpad **(Fig.1B)** to the jack leg **(Fig.1A)**. Set the pins and the footpad aside.

2. Support the trailer according to OEM instructions.

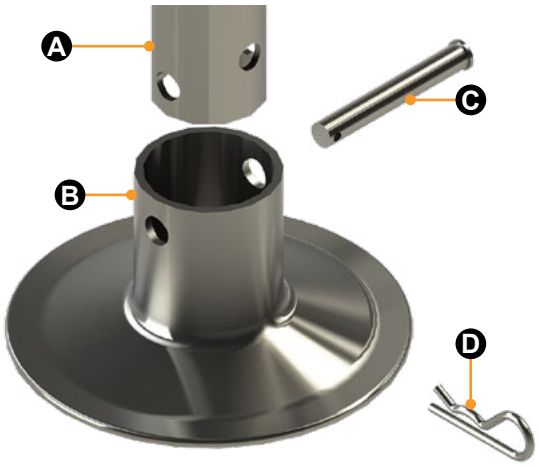


Fig.1

⚠WARNING

THE TRAILER MUST BE SUPPORTED PER MANUFACTURER'S RECOMMENDATIONS BEFORE WORKING UNDERNEATH. FAILURE TO DO SO MAY RESULT IN DEATH OR SERIOUS INJURY.

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Installation

1. Carefully slide the jack leg **(Fig.2B)** through the hole in the coupler **(Fig.2C)** on the trailer A-frame **(Fig.2D)**.

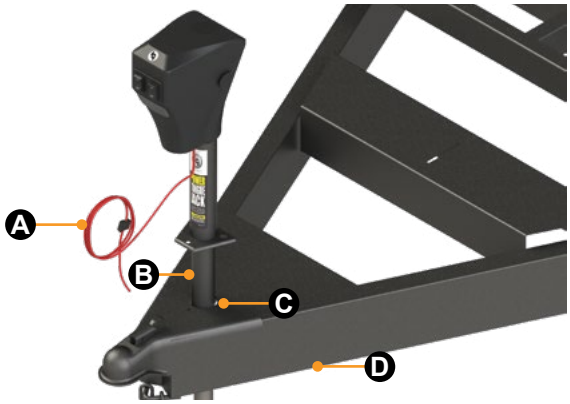


Fig.2

2. Align the three holes in the Power Tongue Jack mounting plate **(Fig.3A)** with the three holes in the coupler **(Fig.3B)**.

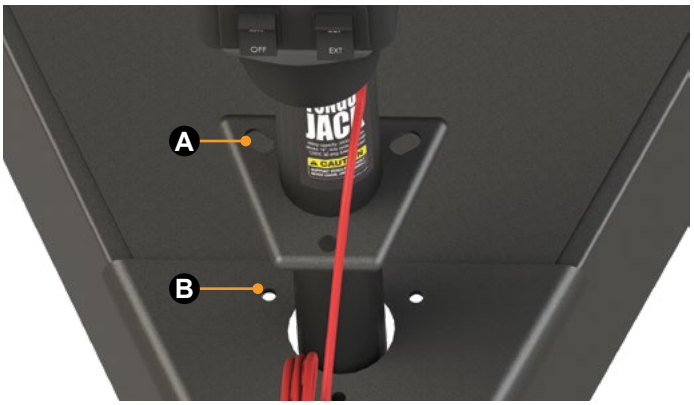


Fig.3

3. Secure the Power Tongue Jack to the coupler plate with the three provided ⅜" - 16 x 1" hex bolts **(Fig.4A)**.



Fig.4

NOTICE

ALL ELECTRICAL WIRING HARNESSES SHALL BE LOOMED AND SECURED TO PREVENT POSSIBLE DAMAGE AND INSTALLED IN ACCORDANCE WITH RVIA ELECTRICAL STANDARDS.

4. Connect the red power wire from the Power Tongue Jack housing to a grounded 12V power supply on the trailer.

5. The Power Tongue Jack must be wired through a 30 amp fused circuit.

6. Loom the harness wires **(Fig.2A)** with the appropriate size and length to protect the wires from damage.

7. Reattach the footpad to the jack leg by sliding the footpad back over the bottom of the jack leg and securing it with the clevis pin and hairpin cotter pin previously removed **(Fig.1)**.

Operation

NOTE: The ON and OFF light switch **(Fig.6A)** controls the power tongue jack's light only. If left on for an extended period of time, the light will drain the trailer's battery.

NOTE: The power tongue jack is designed for vertical movement of the trailer only.

Unhitching from Tow Vehicle

1. Chock the tires of the trailer.

2. Make sure the footpad of the power tongue jack is pinned securely in place with the clevis pin and hairpin cotter pin **(Fig.5B)**.

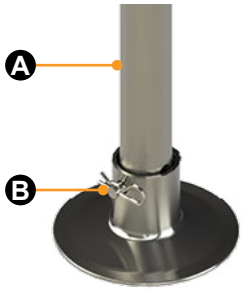


Fig.5

3. Make sure the ground surface under the power tongue jack is firm and level.

4. Push EXT **(Fig.6C)** to extend the power tongue jack until the footpad touches the ground and the coupler clears the hitch ball.



Fig.6

5. Disconnect all electrical and mechanical connections between the trailer and tow vehicle.

6. Move the tow vehicle away from the trailer.

7. Push RET **(Fig.6B)** as needed to return the front of the trailer to level.

Hitching to Tow Vehicle

1. Chock the tires of the trailer.

2. Press EXT **(Fig.6C)** if needed to allow the coupler to clear the hitch ball.

3. Push RET **(Fig.6B)** to retract the power tongue jack until the coupler properly mounts the hitch ball and the leg of the power tongue jack is fully retracted.

NOTE: Make sure the leg of the power tongue jack **(Fig.5A)** is fully retracted prior to moving the tow vehicle.

Manual Operation

NOTE: In the event of loss of power, the power tongue jack can be operated manually.

1. Manually unhitching from tow vehicle:

A. Chock the tires of the trailer.

B. Be sure the footpad of the power tongue jack is pinned securely in place with the clevis pin and hairpin cotter pin **(Fig.7B)**.

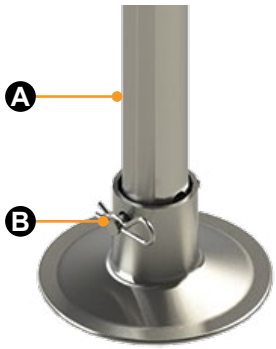


Fig.7

C. Make sure the ground surface under the power tongue jack is firm and level.

D. Open the rubber plug **(Fig.8A)** on top of the power tongue jack's gearbox to expose the manual drive shaft.



Fig.8

E. Insert the socket end of manual crank handle **(Fig.9A)** into the manual drive shaft.

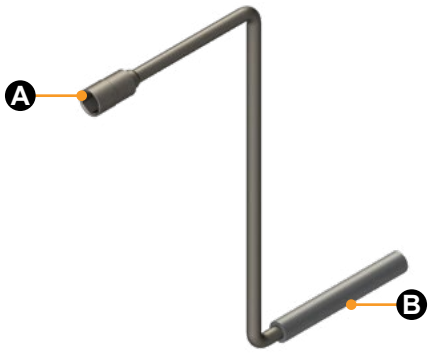


Fig.9

F. Turn the manual crank handle **(Fig.9B)** clockwise until trailer is supported and the coupler clears the hitch ball.

G. Move the tow vehicle away from the trailer.

H. Lower the trailer until it is level by turning the manual crank handle counterclockwise.

I. Remove the manual crank handle **(Fig.9)**.

J. Replace the rubber plug **(Fig.8A)**.

2. Manually reconnecting to tow vehicle:

A. Chock the tires of the trailer.

B. Be sure the footpad of the power tongue jack is pinned securely in place with the clevis pin and hairpin cotter pin **(Fig.7B)**.

C. Open the rubber plug **(Fig.8A)** on top of the power tongue jack's gearbox to expose the manual drive shaft.

D. Insert the manual crank handle **(Fig.9)** into the manual drive shaft.

E. Turn the manual crank handle counterclockwise until the coupler properly mounts the hitch ball and the leg of the power tongue jack **(Fig.7A)** is fully retracted.

F. Remove the manual crank handle **(Fig.9)**.

G. Replace the rubber plug **(Fig.8A)**.

NOTE: Make sure the leg **(Fig.7A)** of the power tongue jack is fully retracted prior to moving the tow vehicle.

Troubleshooting

Fuse

The Power Tongue Jack is provided with a 30A ATO-type in-line fuse and will need to be replaced if it blows. The battery must be fully charged prior to operating the Power Tongue Jack. Low voltage from the battery will cause the fuse to blow prematurely.

NOTE: The "On" and "Off" light switch **(Fig.6A)** controls the Power Tongue Jack's light only. If left on for an extended period of time, the light will drain the trailer's battery.

Clutch

The Power Tongue Jack is provided with a clutch and a motor. The clutch will slip under two conditions:

A. The Power Tongue Jack has reached its extend or retract limit.

B. The tongue weight of the trailer has exceeded the capacity limits of the Power Tongue Jack. Items stored in the trailer can vastly influence the weight on the Power Tongue Jack. Reorganize stored items if the Power Tongue Jack motor clutch continues to slip.

NOTE: Release the switch immediately when the clutch noise occurs. The clutch is the overload protection for the motor. The clutch should not slip during normal operation. This will cause excessive wear on the clutch and the motor.

Notes

Notes

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Manual information may be distributed as a complete document only, unless Lippert Components provides explicit consent to distribute individual parts.

All manual information is subject to change without notice. Revised editions will be available for free download at lci1.com. Manual information is considered factual until made obsolete by a revised version.

Please recycle all obsolete materials and contact Lippert Components with concerns or questions.