

# Powered Drive for Bulldog Jacks

## Read, Understand, Follow and Save These Instructions

- Read, understand and follow all instructions before installing and using this product. Never allow anyone unfamiliar with the operating instructions to use this product.
- Read, understand and follow all instructions provided by the manufacturer of the product(s) that this product will be installed on.
- Installation of this product must conform to the following mounting instructions only.
- Save these instructions for use as a reference in the future.

## ⚠ WARNING

**Failure to follow these warnings and instructions may result in 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. Refer to stamped markings or decals on product to obtain rated capacity. If uncertain, contact Cequent Trailer Products at 800-604-9466 or [www.cequentgroup.com](http://www.cequentgroup.com)
- All welding must be performed by an AWS certified welder.
- Always replace bent, broken, or worn parts before using this product.
- To avoid accidental shock and/or damage to the electrical system, disconnect the battery ground cable before installation.

## Installation Instructions

**Warning: Failure to follow all installation instructions could result in jack and/or powered drive failure.**

### Instructions for Field Installation:

1. Remove the jack cross shaft. If your jack has non-welded hex bushings, refer to Service Bulletin F3310 (included). If your jack has welded round journals, refer to Service Bulletin 011926 (included). If you are installing the powered drive on a planetary two speed jack, refer to Service Bulletin F3376 (included). Refer to steps #1 through #5 for instructions on removing the cross shaft.
2. If your date code is before E06 (May 2006), then you will also need to change out the bevel gear (included) to accommodate the larger dowel pin (included). The date code is stamped on the outer tube. The letter of the date code corresponds to the month of manufacture (A thru N; A means January) and the numbers correspond to the year (i.e. 06 means 2006). The dowel pin hole in the screw rod will need to be drilled out to 5/16" to accommodate the larger dowel pin (enclosed). Please refer to the appropriate Service Bulletin (see above) for the disassembly procedure.
3. Replace the jack cross shaft temporarily with the powered drive/shaft. Install the shaft such that the powered drive is on the non-gear side of the jack with the motor down and within the profile of the jack (see Fig. 1). For a tandem jack system, the powered drive should be between the two jacks and installed on the "street-side" jack. For the tandem two-speed installation, the grease zerks will no longer be easily accessible. Your option is to drill two 1/4" holes on an accessible side of the jack outer tube, and install new grease zerks (not included). Proceed with torque stop tube attachment.
4. With the powered drive/shaft temporarily installed, use it to locate the torque stop tube on the jack outer tube wall (see Fig. 1).
5. Place the torque stop tube on the rubber bumper (with the powered drive/shaft installed into the jack) and mark the location of the torque stop tube on the outer tube of the jack. Remove the powered drive/shaft and weld the torque stop tube on to the jack outer tube at your marked location (see Fig. 1).
6. Replace the powered drive/shaft. Make sure to place the energy-absorbing rubber bumper into the torque stop tube when assembling. This prevents the motor from rotating. Follow instructions of the appropriate Service Bulletin (see above) in reverse order to reassemble the jack. Use the standard hole for normal installation (see Fig. 2; do not use hole #2).
7. Attach the powered drive cover using the 1/4" x 1" bolts and 1/4" rubber bonded washers (included). Sandwich the cover between two rubber bonded washers on each bolt with the rubber side against the cover. Then, screw the bolts into the mounting flange holes. Tighten the bolts. Your option is to apply a thread lock or retaining compound (not included) to the bolts. Place Bulldog decal (included) on outside of cover.

Figure 1

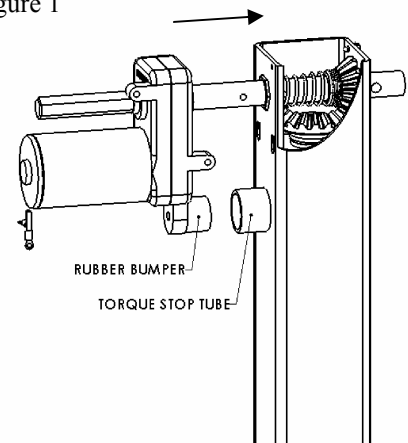
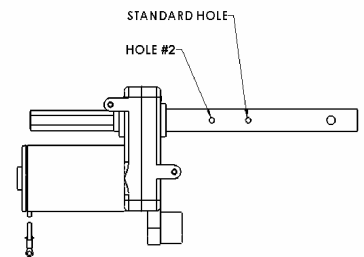
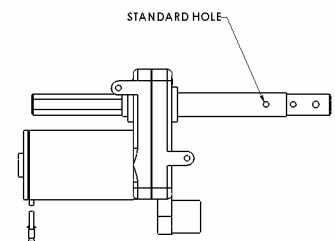


Figure 2



Powered Drive - Single Speed Jack



Powered Drive - Two Speed Jack

8. If you plan to run tandem jacks from the powered drive, you will need to use the hex coupling (included). This coupling can be welded to a length of 1 inch Schedule 40 pipe (see Figure 4). Slide the hex coupling end of the pipe over the hex shaft of the powered drive. Cut the other end of the pipe such that it will just clear the end of the second jack's cross shaft. Cross drill a  $\frac{3}{8}$ " hole approximately 1 inch from the end of the pipe. Slide the pipe over the second jack's cross shaft and attach with a  $\frac{3}{8}$ " x 2" long bolt and lock nut, Grade 5 (not included; see Figure 5). Make sure the jacks are in the same position in reference to the ground prior to final connection.

#### Wiring Instructions:

9. To avoid accidental shock and/or damage to the electrical system, disconnect the battery ground cable.

10. Attach the terminal box to the trailer at a location that will allow for connection of the powered drive leads to the terminal box studs. See wiring diagram (Figure 3).

11. Attach the powered drive leads and the wiring harness leads to the terminal box studs. To protect the leads, enclose them in a section of non-split tubing or loom (included).

12. Locate and attach the switch box of the wiring harness at a desired location on the trailer (mounting hardware not included).

13. Attach the battery leads to the terminal box studs. Attach the terminal box cover.

14. Reconnect the battery ground and test the operation of the powered drive. Apply sealant (not included) to all terminal box entrances.

Figure 3

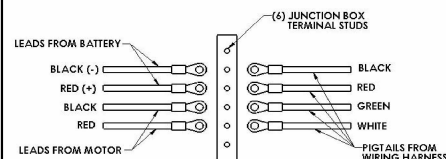


Figure 4

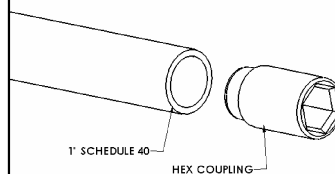
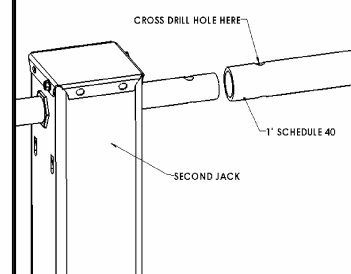


Figure 5



## Operation

1. To raise the trailer off of the ball, extend the drop leg(s) and fully engage the drop leg pin(s). Make sure the coupler is open, then push the "RAISE" end of the rocker switch. Continue raising until the ball completely clears the coupler.
2. To lower the trailer on to the ball, make sure the coupler is open and aligned with the ball, then push the "LOWER" end of the rocker switch. Continue lowering until the ball engages the coupler and the weight of the trailer is no longer resting on the jack. Then, close the coupler and fully retract the jack and the drop leg(s).
3. If for any reason electric power is lost, push to reset the breaker. If there is a different electrical malfunction (i.e. dead battery), the jack can still be manually cranked through the powered drive.

## Maintenance

The powered drive is sealed and maintenance-free. Regular maintenance of the jack should be followed as per the jack's instruction sheet. It is important to maintain the electrical system including the battery and charger (not included). Ensure all connections are tight and free of corrosion. Make sure the battery is fully charged prior to use.

## How to Order

Use only Cequent Trailer Products' parts or parts of equal quality for repair. Replacement parts are available through Cequent Trailer Products' Customer Service Department, 715-693-1700 or 800-604-9466. Please specify product model number.

## Limited Three Year Warranty

**Warranty.** Cequent Trailer Products, Inc. ("We") warrants to the original consumer purchaser ("You") that the product will be free from defects in material and workmanship for a period of three years under normal use and service, ordinary wear and tear excepted. If the product does not comply with this warranty, We will replace the product without charge to You and within a reasonable time or, at Cequent's option, refund the purchase price. This warranty is not transferable.

**Limitations on the Warranty.** The warranty does not cover the following: (a) normal wear and tear; (b) damage through abuse, neglect, misuse, or as a result of any accident or in any other manner; (c) damage from misapplication, overloading, or improper installation; (d) improper maintenance; (e) a product altered in any manner by anyone other than us.

**Obligations of Purchaser.** To make a claim, contact us at 1050 Indianhead Drive, Mosinee, WI 54455, 1-800-604-9466, identify the product, and follow the instructions that will be provided. Any returned product that is replaced or refunded becomes the property of Cequent. You will be responsible for shipping costs to us. Please retain your purchase receipt to verify date of purchase. This must be produced to honor warranty claim.

**Remedy Limits.** Repair or replacement is the purchaser's sole remedy under this or any other warranty on the product, whether express or implied. We shall not be liable for service or labor charges incurred in removing or replacing a product or any incidental or consequential damages of any kind. We expressly disclaim any implied warranty of merchantability or fitness for particular purpose after the three-year warranty period. Some states do not allow the exclusion of incidental or consequential damages or limitation of an implied warranty so the above exclusion and limitation may not apply to you.

**Legal Rights.** This warranty gives you specific legal rights, and You also may have other rights which vary from state to state. **ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON ANY PRODUCT SHALL BE LIMITED TO THREE YEARS FROM THE DATE OF RETAIL PURCHASE BY YOU.** Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to You.

This warranty is governed by the laws of the United States of America and is void where prohibited.

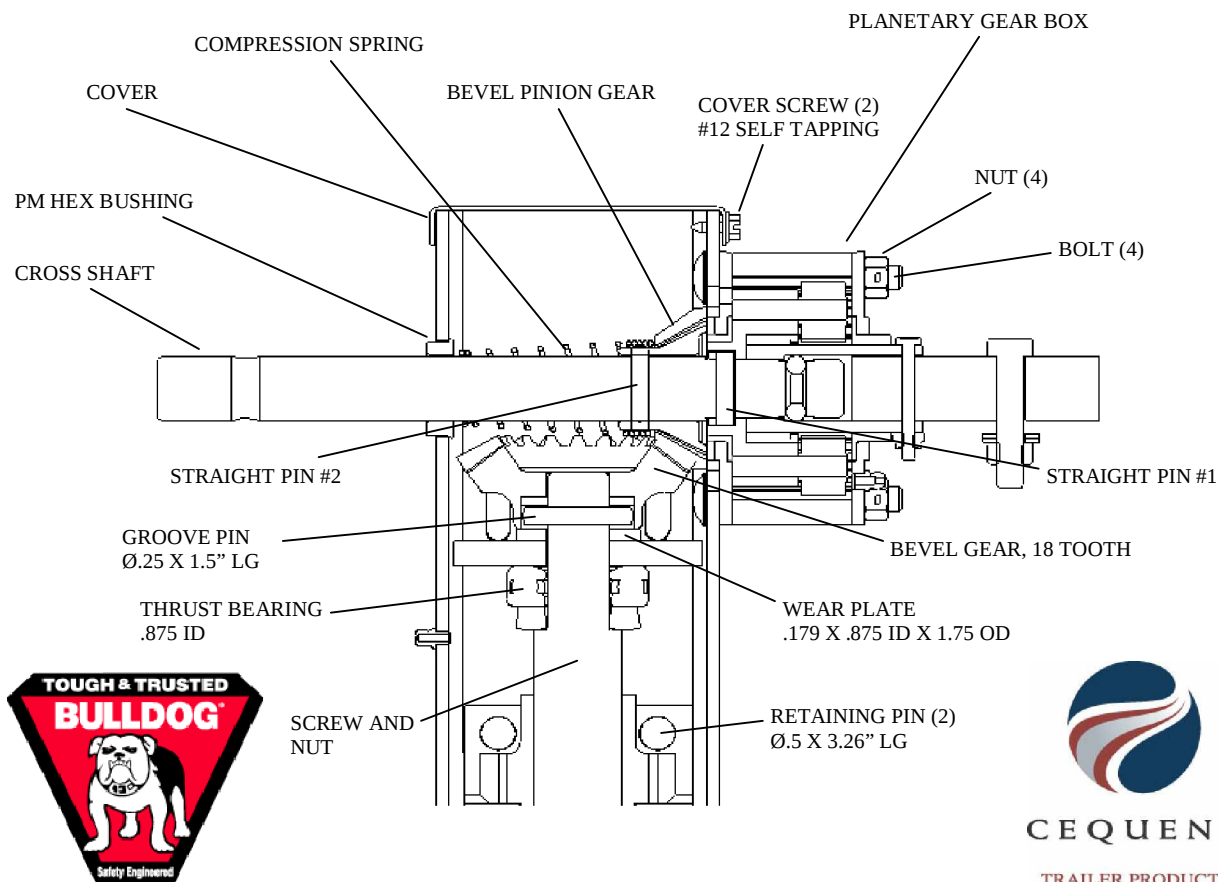
**Cequent Trailer Products**  
**1050 Indianhead Dr., P.O. Box 8 Mosinee, WI 54455-0008**  
**800/604-9466 715/693-1700 Fax 715/693-1799**  
**TR-Sales@cequentgroup.com**  
**www.cequentgroup.com**

## SERVICE BULLETIN

### **BULLDOG 12,000 LB. STATIC CAPACITY JACK WITH TWO SPEED PLANETARY GEAR BOX DISASSEMBLY INSTRUCTIONS**

**PURPOSE** TO DESCRIBE THE PROCEDURE FOR TAKING APART THE 183 SERIES PLANETARY GEAR JACKS TO ADD GEARS, CROSS SHAFT, PM HEX BUSHINGS, COMPRESSION SPRINGS, STRAIGHT PINS, OR SCREW AND NUT ASSEMBLY.

1. REMOVE FOUR(4) NUTS ON PLANETARY GEAR AND SLIDE GEAR BOX OFF BOLTS INTACT.
2. REMOVE STRAIGHT PIN #1 FROM CROSS SHAFT.
3. USING CAUTION NOT TO LET THE GEAR BOX BOLTS FALL INTO JACK, PROCEED WITH THE REMOVAL OF THE PINION GEAR AND CROSS SHAFT.
4. REMOVE TWO(2) COVER SCREWS AND COVER.
5. PULL COMPRESSION SPRING AWAY FROM PINION GEAR ALLOWING PIN #2 TO SLIDE OUT OF THE CROSS SHAFT. ENSURE THAT PIN #2 DOES NOT FALL INTO GEAR SET.
6. ROTATE CROSS SHAFT APPROXIMATELY 45° OR UNTIL STRAIGHT PIN #2 CLEARS THE TEETH OF THE LOWER BEVEL GEAR. (LARGER GEAR)
7. THE CROSS SHAFT, SMALL PINION BEVEL GEAR, BUSHINGS AND SPRING CAN NOW BE FREELY REMOVED.
8. LIFT LARGE GEAR OFF SCREW STEM.
9. USE CAUTION WHEN REMOVING THE 1/4" GROOVE PIN AND WEAR PLATE. THE GROOVE PIN SUPPORTS THE INNER TUBE ASSEMBLY. (THE INNER RAM AND DROP LEG CAN THEN BE REMOVED)
10. THE RETAINING PINS ON EITHER SIDE OF NUT CAN NOW BE REMOVED. (THE SCREW AND NUT CAN BE LIFTED OUT)
11. TO RE-ASSEMBLE JACK FOLLOW INSTRUCTIONS IN REVERSE.



F3376 Rev. RE Date Issued: 02-24-06

1050 Indianhead Dr. • P.O. Box 8 • Mosinee, WI 54455 • PH 715-693-1700 • FAX 715-693-1799  
www.cequentgroup.com

