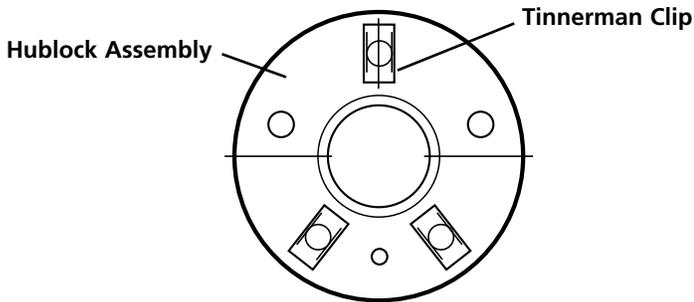


SUPERWINCH®

Free Wheeling Hub - Model 400565 Installation Instructions

Application: Ford Explorer 1990-94 and Ford Ranger 1990-97.



INSTALLATION INSTRUCTIONS:

1) Remove the tinnerman clips that are securing the hublock assembly to the wheel studs. Save these tinnerman clips as they will be needed later. Remove the hublock assembly from the hub and rotor assembly.

2) If you are replacing Manual Hublocks:

a) Install the hublock assembly up against the hub and rotor assembly.

b) Attach the tinnerman clips on the wheel studs and press them up firmly against the hublock assembly.

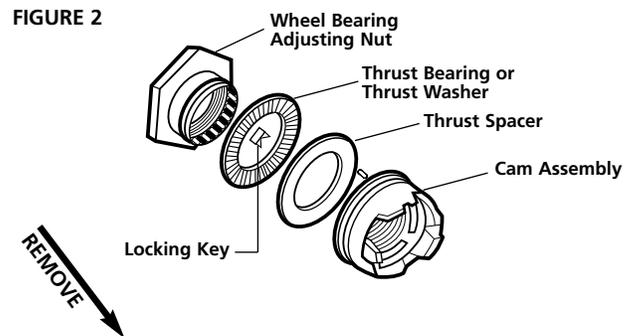
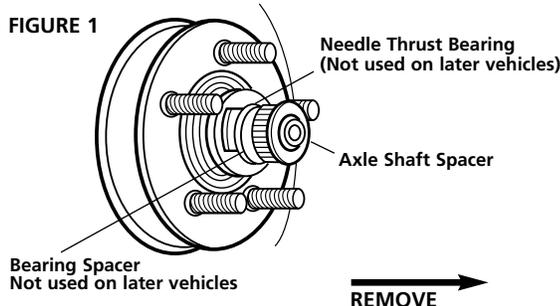
c) Install the wheel and tire and torque the lug nuts to 85-135 lb-ft.

3) If you are replacing Automatic Hublocks:

a) Remove the axle shaft ring, axle shaft spacer (splined), needle thrust bearing (on earlier vehicles), and bearing spacer from the axle (Figure 1).

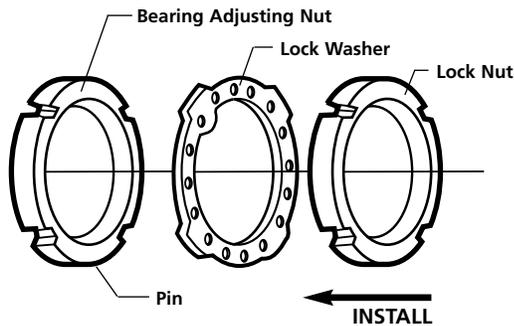
b) Remove the cam assembly, thrust spacer and thrust bearing or thrust washers from the wheel bearing adjusting nut (Figure 2).

c) Remove the locking key (single or double hump) from the wheel bearing adjusting nut. Make sure the adjusting nut is not binding against the locking key or removal of the locking key will be most difficult. A thin sharp tool will help remove the locking key. After the locking key has been removed, remove the adjusting nut from the wheel spindle (Figure 2). On some early vehicles the locking key is part of the camming assembly. On these vehicles the adjusting nut must be removed after the camming assembly has been removed.



d) Install the bearing adjusting nut (with pin) and torque to 35 lb-ft. Back off the adjusting nut 90 degrees and re-torque to 16 lb-in. Install the lock washer against the adjusting nut. Be sure the holes in the lock washer line up with the pin on the bearing adjusting nut. Install the outer lock nut and torque to 150 lb-ft (Figure 3).

FIGURE 3



- e) Replace the items previously removed at step 3a, be sure the retaining ring is seated in its groove.
- f) Install the hublock assembly up against the hub and rotor assembly.
- g) Attach the tinnerman clips on the wheel studs and press them up firmly against the hublock assembly.
- h) Install the wheel and tire and torque the lug nut to 85-135 lb-ft.

⚠ WARNING DO NOT USE GREASE. USE OF SUPERWINCH HUBS WITH GREASE WILL VOID WARRANTY

Superwinch Limited Warranty

LIMITED WARRANTY

Superwinch Inc. ("Seller" or "Superwinch") warrants to the original retail buyer only ("Buyer") that all genuine SUPERWINCH hub products, hub parts and hub components ("Products") shall be free of defects in materials and workmanship from provable date of purchase of the new Product for as long as Buyer owns the vehicle on which the Products are installed. Any Product that Superwinch determines to be defective will be repaired or replaced at Superwinch's sole discretion without charge to Buyer upon Buyer's compliance with these procedures. Seller or its Authorized Agent may make reasonable charges for parts and labor for repairs not covered by this Limited Warranty. The warranties set forth herein are exclusive and in lieu of all other warranties, whether oral or written, express or implied.

LIMITED WARRANTY PROCEDURE

When contacting Seller, Buyer shall mail, ship or otherwise deliver to Seller at the address noted below (1) the Product; (2) a written description of the problem; (3) Buyer's name, address and telephone number; and (4) a copy of the original sales receipt. Mail, ship or otherwise deliver the Product, required information and copies to Seller, postage or shipping prepaid. CONTACT SUPERWINCH WARRANTY SERVICE AT 1-800-323-2031 FOR A RETURN AUTHORIZATION NUMBER PRIOR TO RETURNING PRODUCT TO SUPERWINCH.

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TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, THE FOLLOWING ARE HEREBY EXCLUDED AND DISCLAIMED:

- (1) All warranties with respect to the Product's finish.
- (2) All warranties of fitness for a particular purpose.
- (3) All warranties of merchantability.
- (4) All claims for consequential or incidental damages.

Some states or jurisdictions do not allow limitations or exclusions in consumer transactions, and these limitations or exclusions may not apply to Buyer. The warranty gives Buyer specific legal rights and there may be others. If a warranty is deemed to apply to this Product, it shall be limited for a period of one (1) year from the provable date of purchase of the new Product. NO agent, dealer, distributor, or employee of Seller is authorized to make modifications to this warranty, and not such statements, whether oral or written, shall be binding on the Seller.

INQUIRIES

Any inquiries regarding compliance with warranties provided herein may be addressed in writing to Superwinch Inc. or to Superwinch, Ltd. at the addresses noted below.



Superwinch, Inc. • Winch Drive
Putnam, CT 06260 • U.S.A.
Tel. (860) 928-7787 • Fax (860) 963-0811

Superwinch, Ltd. • Abbey Rise, Whitchurch Road
Tavistock, Devon PL 19 9DR • England
Tel. +44(0) 1822 614101 • Fax +44(0) 1822 615204