



THE STANDARD IN ENGINEERING EXCELLENCE



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Thank you and congratulations on your purchase of the finest performance products available today.

We appreciate your feedback, good or bad, about the quality and performance of this product.

Our goal is 100% customer satisfaction and your feedback is very important in achieving this goal!

- This pulley kit Part# 04100150_ contains a crank pulley: underdrive stock belt layout (Ultra S) Part# 0210115. Accessory pulleys (Ultra A): alternator Part# 0110315 & water pump Part# 0110515. Check that these part numbers match the part number engraved on the back of the pulleys. If the part numbers or quantity of parts do not match, do not install the pulleys and call the dealer you purchased the parts from or call our tech line direct.

Other Fine Unorthodox Racing Products Available For Your Vehicle

- Aluminum flywheel (Ultra L) Part# 06.10.115.00.
- Performance clutch kits (Ultra G) available for all models, kits include pressure plate, disc, required bearings and an alignment tool.
 - Full faced Kevlar disc holds 30% more power than the stock clutch (Solid or sprung hub disc). (Street Sport) For stock to slightly modified cars.
 - Windowed Kevlar disc holds 45% more power than the stock clutch (Solid or sprung hub disc). (Sport Mod) For slightly to moderately modified cars.
 - Four or Six (6) paddle Ceramic disc holds 80% or Feramic discs holds 110% more power than the stock clutch (Solid or sprung hub disc).
- Ceramic (Sport Pro) for moderately to heavily modified cars and Feramic (Race Pro) is designed for heavily to race modified cars.

Installation Instructions

2002-03 Nissan 350Z / Infiniti G35 3.5L DOHC 24V

- **Notice:** These instructions are not a replacement for the factory manual; factory specified tools maybe required for removal of the original parts.
- Open the hood to gain access to the engine compartment and remove upper engine compartment cover.
- Remove air box/filter assembly, also remove overflow hose from the fan shroud/assembly and disconnect battery.
- Raise the vehicle and place jack / safety stands on both of the frame rails for access underneath the vehicle.
- Remove the under body engine shroud and two bolts holding the fan assembly in place and then lower fan assembly.
- Loosen the water pump pulley nuts but do not fully unthread them.
- Dismount alternator, we recommend removal of the oil filter for easier alternator pulley nut removal. Dismounting is done by undoing the lower bolt then undoing the upper bolt, making sure fan assembly is low enough to remove the long bolt. This procedure allows for easy access to alternator pulley nut removal via an impact gun.
- Loosen the crankshaft pulley bolt but do not remove yet.
 - Manual Transmission: Have helper put car in 6th gear and hold the brake pedal firmly, the bolt is very tight and will require significant force to loosen. A ¾" impact gun is the easiest method of removal.
 - Automatic transmission: Follow the crank pulley removal procedure/s specified in the factory manual.
- Loosen the accessory drive belts and remove the original crankshaft and accessory pulleys.
- Install the underdrive crankshaft pulley; lightly coat the inner bore of the new pulley with anti-seize compound and tighten the crankshaft pulley bolt, see the torque specification below. Make sure that the crank snout edge has no burrs, if no burrs are present pulley will slip on easily and seat properly. **Do not force pulley onto crankshaft, as damage to both will occur voiding the warranty.** In the rare case that a pulley is tight clean crank snout (as they can get slightly rusty) with emery cloth until pulley slides on as stated.
- Install the new alternator and water pump pulleys; lightly coat the inner bore of the new pulleys and the rear surface of the water pump pulley, that contacts the steel mounting flange, with anti-seize compound.
- Install the new accessory belts in the reverse order, see the necessary new belt sizes below.
- Tighten the new accessory belts to the factory tension specifications and re-install all the remaining components in the reverse order.
- Raise the car and remove jack / safety stands and lower car back down.
- The maximum HP gains will occur in 5-7 days of installation, once the computer recalibrates to take advantage of the engines lighter rotational weight.

Crankshaft Pulley Bolt Torque Specifications

- **First Step:** 29 – 36 ft-lbs. / 348 – 432 in-lbs. / 39 – 49 NM.
- **Second Step:** Notice that the head of the crankshaft pulley bolt has 6 lines, each representing 60-66 degrees of rotation. Choose one of the lines after completing step 1 then make a mark on the pulley at that line, at the edge of the bolt, then turn the the bolt until the line before the original line reaches the mark on the pulley.

New Belt Sizes (The belt sizes used may vary slightly. We recommend the use of Gates brand belts. Belt sizing can vary from belt manufacturer to belt manufacturer)

- Alternator Power Steering and Water Pump Belt: Use Gates K060445 (45 1/4" or 1150MM)
- Air Conditioning Belt: Use Gates K040353 (35 7/8" or 910MM)

* If a different size belt/s work better on your vehicle please let us know the manufacturer and size of each belt/s used.
You can contact us by phone or e-mail through our web page. Thank You!

* New belts will stretch naturally over the first few hundred miles so belt retensioning may be required if you hear belt squeal.
Prolonged lack of retensioning may cause irreversible damage to the pulley voiding the warranty.

**For technical assistance please contact our technical support line at 631-586-9525 ext. 12
(Monday - Friday 10AM to 6PM EST)**

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THE UNORTHODOX PLEDGE

Unorthodox Racing, Inc. warrants the quality of the products it designs and manufactures to be free of defects in material and workmanship for one year from date of purchase for pulleys, cam gears and aluminum flywheels and 90 days from date of purchase for all stages of clutches. This limited warranty is extended only to the individual purchaser who has purchased our product from an authorized reseller and may not be transferred or assigned. A list of authorized resellers is available on our web site or can be obtained by calling our main offices. This limited warranty applies to any product, which, after careful inspection by Unorthodox Racing Inc., after receipt of the product/s from our authorized reseller, is found to have a defect in either material or workmanship. **UNORTHODOX RACING, INC. PARTS, USED IN COMPETITION OF ANY KIND, SANCTIONED OR UNSANCTIONED, ARE SOLD "AS IS" WITHOUT ANY WARRANTY WHATSOEVER.** Any modifications to the pulley/pulleys will void any and all warranties and will not be exchanged. Before installation, check new car warranty. Unorthodox Racing, Inc. is not responsible for voiding any original manufacturer warranty. All warranty claims must be returned to Unorthodox Racing or your authorized reseller, you must return the product and sales receipt, at your own expense, accompanied by a letter stating the reason for the claim. ***PLEASE REFER TO THE PARAGRAPH BELOW FOR THE PROPER RETURN PROCEDURES.*** Any claims for pulleys, cam gears or flywheels must be received no later than one year after the date of purchase. Any claims for clutches must be received no later than 90 days from the date of purchase. If all the above procedures are followed, and the product is found to be defective in either material or workmanship, Unorthodox Racing, Inc. shall either repair or replace the product, at its sole discretion, and at its sole cost. This limited warranty does not cover or apply to any personal injury, labor charges, or any other incidental costs or damages caused by the defective product. **THIS LIMITED WARRANTY IS THE ONLY EXPRESS WARRANTY, WHICH APPLIES TO UNORTHODOX RACING PRODUCTS AND IS EXPRESSLY GIVEN IN LIEU OF ANY OTHER WARRANTY EXPRESSED OR IMPLIED, INCLUDING THAT OF MERCHANTABILITY. ANY IMPLIED WARRANTY INCLUDING THAT OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE IS HEREBY LIMITED BY THE SAME TERMS AND TIME LIMITATIONS SET FORTH IN THIS LIMITED EXPRESS WARRANTY AND OTHERWISE EXCLUDED.** You may have rights under either state or federal law, including laws governing warranties, which you should consult. EXCEPT FOR THOSE OBLIGATIONS ASSUMED HEREIN, UNORTHODOX RACING, INC. ASSUMES NO OTHER OBLIGATIONS IN CONNECTION WITH THE SALE OF ITS PRODUCTS.

We sometimes make mistakes, as do our authorized dealers, even customers can order the wrong parts. **DO NOT USE, MODIFY, INSTALL, TRIAL ASSEMBLE, MARK, NICK, DROP, SCRATCH OR BALANCE ANY PART UNTIL YOU FIRST CHECK FOR ANY DAMAGE AND THE PART IS CORRECT FOR YOUR APPLICATION.** Shortages must be reported within five (5) business days of receipt. Damage must be reported immediately, no exceptions. For any shortages or damage please contact Unorthodox Racing Inc or your authorized reseller immediately upon receipt of the shipment. Any parts not purchased directly from Unorthodox Racing Inc, must be processed through the authorized reseller from which you purchased the product. E-Store order return claims must be received within 30 days of the invoice date in order to receive a full credit of the purchase price (less the shipping & handling cost). Any returns after 30 days will be assessed a 30% re-stock fee. If you need to return parts purchased from a dealer you must make your claim for return through that dealer. If you purchased items directly from Unorthodox Racing Inc., discontinued and blow out items are final sale only, please contact our customer service department, they will issue you a "RETURN MERCHANDISE AUTHORIZATION" number (RMA#). For any returns write this RMA number on the outside of the box so that our receiving/shipping department or the authorized resellers receiving/shipping department can expedite the claim. **THE RETURNED PARTS MUST BE IN RESALEABLE CONDITION; THAT IS, IN THE SAME CONDITION YOU RECEIVED THEM. IT IS YOUR RESPONSIBILITY TO CAREFULLY PACKAGE ANY RETURNS TO AVOID SHIPPING DAMAGE. INSURANCE IS HIGHLY RECOMMENDED. CREDIT WILL NOT BE ISSUED FOR DAMAGED GOODS.**

PLEASE CALL IF YOU HAVE ANY QUESTIONS OR DO NOT UNDERSTAND THIS WARNING! Refer to our catalog for other terms and conditions. We appreciate your business. The purpose of this warning is to avoid any problems or hard feelings. We will bend over backwards to help you.

www.unorthodoxracing.com