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Thanks for choosing the finest performance products available today. Your feedback about quality and performance are vital to UR maintaining 100% satisfaction!

E-mail feedback to: info@unorthodoxracing.com

Other UR Products Available For Your Car

- Clutches (4 Stages): Kits include pressure plate, disc, required bearings and an alignment tool.

Installation Instructions

2004-08 RX-8

Kit# 040801802, contains eccentric Part# 020811802, alternator Part# 01083081 & water pump Part# 01085181. Check numbers match numbers engraved on pulleys. If numbers or quantity of parts don't match stop and call dealer you purchased from or call our tech line.

- **Notice:** These instructions are not a replacement for the factory manual; factory specified tools maybe required for removal of the original parts.
- Open hood and remove upper engine cover and air box assembly then loosen and disconnect positive battery cable.
- Loosen eccentric shaft and accessory pulley bolts but do not remove pulleys yet.
- Loosen belts and remove then remove all pulley, timing ring must remain in between factory hub and underdrive pulley.
- Install underdrive eccentric shaft pulleys; lightly coat inner bore and back mating surfaces of pulley with anti-seize compound. Make sure eccentric hub edge has no burrs, if none are present pulley will slip on and seat properly. **Do not force pulley onto eccentric shaft as damage to both will occur voiding warranty.** If pulley is tight clean hub with emery cloth until pulley slides on.
- Install accessory pulleys; lightly coat inner bore of pulleys and tighten bolts/nuts until pulleys are flush with their mounting surfaces.
- Install new belts and tighten to factory specifications (see necessary new sizes below).
- Torque eccentric shaft pulley bolts (See torque specification below) then re-install remaining components in reverse order.
- Turn ignition switch to "ON" position, but do not start engine. Depress and release brake pedal at least 20 times within an 8 second period. This will clear computers Non-Volatile RAM where it stores eccentric shaft tooth profile (required when removing main pulley). Now you can start car. There will be dash warning lights on from removal of battery cable. If your car is equipped with stability control, turn your steering wheel to lock left, then right. Let engine idle for a bit and the turn off car. Now re-start car. All warning lights should be off at this point and you are ready to go for a ride!
- **Note:** If NV-RAM was not cleared by brake pedal procedure (confirm during procedure on models with an L or higher PCM calibration by watching oil pressure needle sweep from low to half, and back down again) you may see a check engine light. If so remove battery cable for 20 seconds & reconnect. Repeat key-on / brake pedal tapping procedure.
- The maximum HP gains will occur within 5-7 days of installation, once the computer recalibrates to take advantage of the engines lighter rotational weight.

Eccentric Shaft and Water Pump Pulley Bolts Torque Specification

- 8 ft-lbs. / 96 in-lbs. / 11 NM

New Belt Sizes (UR sells Gates belts at www.unorthodoxracing.com. Belt sizes used may vary slightly. Belt sizes can vary from belt manufacturer to belt manufacturer)

- Alternator & Water Pump: Gates K050316 (32.25" or 820MM)
- Air Conditioning: Gates K040292 (29.75" or 755MM)

Belts must be changed every two years because belt rubber may harden enough to cause damage to the pulley/s.
Keep your belt purchase receipts as they are required for any warranty claims sent to UR.

Tech Support Call 631-586-9525
(M - F 11 AM to 5 PM EST)

THE UR PLEDGE

Unorthodox Racing, Inc. ("UR") warrants the quality of its pulleys and cam gears for five (5) years (black hard coated surfaces are warranted for one (1) year from date of purchase – UR recommends against the use of high performance belts as they cut through the black hard coat). UR warrants all stages of clutches for six (6) months from date of purchase to be free of defects in material and workmanship. This limited warranty is extended only to the individual purchaser who has purchased the product from an authorized reseller or UR direct 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. **UR PARTS USED IN COMPETITION OF ANY KIND, SANCTIONED OR UNSANCTIONED, ARE SOLD "AS IS" WITHOUT ANY WARRANTY WHATSOEVER.** Any modifications to the product/s voids any and all warranties. Before installation, check new car warranty as UR is not responsible for voiding the original car manufacturer warranty. All warranty claims must be sent to UR, if purchased direct or from an 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 must be received within the periods stated above 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, UR 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 UR 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, UR ASSUMES NO OTHER OBLIGATIONS IN CONNECTION WITH THE SALE OF ITS PRODUCTS.

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