



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# 020810702 contains a crank pulley: underdrive stock belt layout (Ultra S) Part# 0208107, polished finish only. Check that the part number matches the number engraved on the back of the pulley. If the part numbers or quantity of parts do not match, do not install them 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# 06.08.107.00 (1986-91 NA).
- Aluminum flywheel (Ultra L) Part# 06.08.108.00 (1987-91 Turbo II).
- 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

1986-91 Mazda RX-7 1.3L NA / Turbo

- **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 the engine compartment then remove the fan and fan shroud assembly.
- Remove the battery and its housing.

IMPORTANT!!! BEFORE YOU LOOSEN THE ECCENTRIC PULLEY BOLT:

- If the engine is in the vehicle, you can use a piece of wood or something similar to push the clutch pedal to the floor and hold it there.
- If the engine is out of the vehicle, position it flywheel DOWN, pulley UP. Keep the engine in this position until the new pulley has been installed and the eccentric bolt has been tightened.
- * **These steps are very important and are done to hold the rear torrington bearing in place against the thrust plate to prevent the thrust bearing in the front of the motor from dropping out of place if the spacer moves forward.**
- Loosen the eccentric shaft pulley bolt, but do not remove.
 - Manual Transmission: Have assistant put car into 5th gear and hold brake pedal firmly, the bolt is tight and will require significant force to loosen.
 - Automatic Transmission: Follow the crank pulley removal procedure/s specified in the factory manual.
- Loosen the accessory belts and remove.
- Remove the eccentric shaft pulley bolt.
 - Note:** If key is not positioned directly downward reinstall bolt and turn eccentric shaft until key is in the down position. This is done for alignment purposes in case the key slides out with the pulley. The key slot must point downward to re-install the key.
- **The new crankshaft pulley is equipped with a steel sleeve that the engine oil seal rides. Check to make sure that the sleeve is on the pulley otherwise do not install as a major oil leak or serious engine damage could occur.**
- Install the underdrive eccentric pulley; lightly coat the inner bore of the new pulley with anti-seize compound and tighten eccentric pulley bolt, see bolt torque specification below. Make sure that the eccentric snout edge has no burrs, if no burrs are present pulley will slip on easily and seat properly. **Do not force pulley onto eccentric shaft, as damage to both will occur voiding the warranty.** In the rare case that a pulley is tight clean eccentric snout (as they can get slightly rusty) with emery cloth until pulley slides on as stated.
- Install the new accessory belts in reverse order and tighten to factory specifications, see the necessary new sizes below.
- Re-install the remaining components in the reverse order.
- 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.

Eccentric Pulley Bolt Torque Specification

- 90-98 ft-lbs. / 1080-1176 in/lbs. / 122-133 NM

New Belts Sizes (The belt sizes used may vary slightly. We recommend the use of Gates Brand belts, belt sizing varies slightly among belt manufacturers)

- Alternator Belt- Use Gates 7300 (30 5/8" or 780MM)
- Air Pump Belt- Use Gates 7370 (37 5/8" or 955MM)
- Power Steering Belt- Use Gates 9365 (36 7/8" or 935MM)
- Air Conditioning Belt- Use Gates 9405 (40 7/8" or 1040MM)

* 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!

**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

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www.unorthodoxracing.com