



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# 021210202 contains a crank pulley: underdrive stock belt layout (Ultra S) Part# 0212102, 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 flywheels (Ultra L) are available for all models.
- 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

#### 1985-92 Corolla 4AGE FWD / 1985-89 Toyota MR2 NA 1.6L DOHC 16V

- **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.
- **Corolla FWD Only:** Loosen lug nuts on the front passenger side wheel.
- Raise the front of the car up and place jack/safety stands on passenger and driver side frame rails and remove the front passenger side front wheel.
- Unbolt and remove the plastic shroud assembly covering the pulley.
- **MR2 Only:** Loosen lug nuts on the rear passenger side wheel.
- Raise the rear of the car up and place safety stands on passenger and driver side frame rails and remove the front passenger side rear wheel.
- Loosen the passenger side motor-mount bolts, let engine drop then unbolt and remove the plastic shroud assembly covering the pulley.
- Loosen the original crankshaft pulley bolt but do not remove yet.
  - Manual Transmission - Have helper put car in 5<sup>th</sup> gear and hold the brake pedal firmly, the bolt is very tight and will require significant force to loosen.
  - Automatic transmission - Follow the crank pulley removal procedure/s specified in the factory manual.
- Loosen and remove the accessory belts and remove the original crank pulley making sure the crank snout is free from rust or other build up.
- Install the underdrive crank pulley, lightly coat the inner bore of the pulley with ant-seize compound and tighten crank pulley bolt (see torque specification below).  
Make sure crank snout edge has no burrs, if no burrs are present pulley will slip on easily and seat properly. Do not force pulley onto crank shaft as damage to both will occur voiding the warranty. In rare case pulley fits too tight, clean crank snout (as they can get slightly rusty/corroded) with emery cloth until pulley slides on easily.
- Install the new accessory belts and tighten to factory tension specifications, see the necessary new sizes below.
- **MR2 Only:** You may need to jack the engine back into position to attach the motor mount bolts, place the jack under the engine, use a piece of wood on the cradle of the jack to spread the weight of the engine and to not dent the oil pan and lift the engine up from the oil pan.
- **MR2/Corolla FWD Only:** Re-install remaining components in reverse the order then raise car and remove jack/safety stands.
- 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 Specification

- 101 ft-lbs. / 1212 in-lbs. / 136 NM.

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

**MR2:** A/C Belt - Use Gates K040305 (31 1/8" or 790MM), alternate size use K040300 (30.75" or 780MM)

Alternator & W/P Belt – Use Gates K050310 (31 5/8" or 805MM), alternate size use K050315 (32.25" or 820MM)

**FWD:** Air Conditioning w/o Power Steering- Gates K060305 (31 1/8" or 790MM) \* **requires removal of 1 rib from belt**

Alternator & Water Pump – Gates K050310 (31 5/8" or 805MM), alternate size use K050315 (32.25" or 820MM)

Power Steering - Gates K050350 (35 5/8" or 905MM), alternate size use K050345 (35 1/8" or 890MM)

Power Steering & Air Conditioning - Gates K050410 (41 5/8" or 1060MM), alternate size use K050405 (41" or 1043MM)

\* **Check that suggested belt is correct length before removing 1 rib, once cut the belt will not be returnable.**

\* 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 10 AM to 6 PM EST)

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[www.unorthodoxracing.com](http://www.unorthodoxracing.com)