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Please e-mail us at: [info@unorthodoxracing.com](mailto:info@unorthodoxracing.com)

### In Case You Missed These Other UR Products Available For Your Car

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

## Installation Instructions

1993-01 Z24 / Grand Am / Sunfire GT 2.3 / 2.4L DOHC 16V

- 020400102 is what should be engraved on the back of the pulley, if not stop and call our tech line immediately.
- *A 1MM stainless steel sleeve is pressed over the outer diameter on rear of pulley, where part# is engraved. For visual reference sleeve has a slight taper at the end. Check pulley to make sure the sleeve was installed. Do not install if sleeve is not present as a major oil leak or serious engine damage could occur.*
- **WASH PULLEY WITH SOAP OR BRAKE CLEAN TO REMOVE ANY REMAINING OIL RESIDUE FROM THE MACHINING PROCESSES.**
- **Notice:** *These instructions are not a replacement for the factory manual; factory specified tools or procedures maybe required.*
- Loosen passenger side front wheel then raise car and secure with jack stands then remove and plastic shroud in front of crank pulley.
- Loosen crank pulley bolt but do not remove yet (A ¾" impact gun is easiest method of bolt removal).
  - Manual Transmission: Bolt is very tight, a helper must hold brake pedal firmly with transmission in its top gear,
  - Automatic transmission: Follow crank pulley removal procedure/s specified in factory manual.
- Loosen the accessory belt with auto tensioner and remove the belt.
- Remove the crank pulley, be aware that the key in the crank may fall out, just reinstall in the crankshaft before installing the new pulley.
- Make sure crank snout is clean and has no burrs, if necessary clean with emery cloth. **Don't force pulley onto crank as damage to both will occur voiding warranty.** Lightly coat snout with anti-seize compound install crank pulley and tighten bolt (see torque spec below).
- Install the new belt (see size below) then re-install the remaining components in reverse order.
- Maximum HP gains will occur within 5-7 days, once the computer recalibrates to take advantage of the engines lighter rotational weight.

### Crank Pulley Bolt Torque Specifications

- **Step 1:** 74 ft-lbs. / 888 in-lbs. / 100 NM <> **Step 2:** then turn bolt an additional 90 degrees.

**New Belt Sizes** (UR sells Gates belts at [www.unorthodoxracing.com](http://www.unorthodoxracing.com), just enter the part# into the Search By Part# field)

- Gates K050450 (45.75" or 1160MM).

\* **Belts will stretch in the first few days of use, so squealing may occur. They must be re-tensioned immediately as prolonged squealing will damage pulley voiding the warranty.**

***Belts must be changed every two years as rubber may harden enough to cause damage to the pulley. Keep the receipts of belt purchases as they are required in case of any warranty claims sent to UR.***

**Tech Support Call 949.4.PULLEY (478-5539)**  
(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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