Installation Instructions

Adjustable Cam Gear for B21, B23, B230
1976-1995
ipd #140128, 140129

INSTALLATION TIPS

NOTE: For vehicles with B230 engine (1985 and later) do NOT use cam shim (ipd part #104930) if your engine already has one. If the belt rides past the front edge of the gear, you may need a shim.

SAFETY WARNINGS

CAUTION: Be sure to tighten the 5 adjustment screws when installing. They may not be completely tightened when you receive the gear.

INSTALLATION

1. Remove the old cam gear as described in the workshop manual. Now is a good time to replace the cam belt if necessary.

2. Do not replace the belt guide discs on the cam gear, as it will interfere with the adjustment feature. The crank gear has inner and outer guides, which will keep the belt in line with the gears.

3. Initially do not replace the cam belt cover so you can make adjustments easily. You can reinstall the cover when your adjustments are complete.
**INSTALLATION**

**How to use the Gear:**

The center mark is the stock setting 0 degrees.

To advance the cam timing adjust the outside mark toward A and retard toward R.

Adjustment requires loosening the five bolts.

Each mark is equal to 1 cam degree or 2 crank degrees. We recommend moving not more than 2 degrees at a time to gauge the best setting for your engine.

Do not over tighten the bolts. Torque is only 5 ft lbs. Anything more can break the bolts.

*Advancing* the cam timing will give more low-end torque and better throttle response.

*Retarding* the timing will give more upper rpm power.

**WARRANTY**

**One Year Limited Warranty**

ipd warrants to the original purchaser that the parts manufactured and/or sold by ipd (the Product) is free from defects in material and workmanship under normal use. ipd warrants that the Product will perform substantially in accordance with the specifications set forth in the documentation provided with it. The above express warranties are made for a period of the lesser of 12,000 miles or 12 months from the date the Product is installed in your vehicle.

Any improper use, operation beyond capacity, substitution of parts not approved by ipd in writing, any alteration or repair by others, or any removal, detacing or altering of the identification shall void this warranty. There is no warranty on high-performance or race related parts due to the nature of usage.

The purchaser shall notify ipd at 1-800-444-6473 of any defect within the warranty period no later than thirty (30) days after purchaser discovers the defect. Should any failure to conform to this warranty appear within the warranty period, ipd shall, on notification, correct the nonconformity at its option, either by repairing any defective part, or by making available, FOB ipd's plant, a repaired or replacement part. The purchaser must insure any defective item being returned because ipd does not assume risk of loss or damage while in transit. No payment or reimbursement shall be made for installation, removal, transportation or other charges. The remedies set forth in this instrument are exclusive, and the liability of ipd with respect to any sale shall not exceed the price of the product on which the liability is based.

EXCEPT AS STATED OTHERWISE IN THIS WARRANTY, ipd MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. ipd shall not in any case be liable for special, incidental, consequential, indirect, or other similar damages arising from any breach of these warranties even if ipd or its agent has been advised of the possibility of such damages. Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

This warranty is governed by the laws of the State of Oregon.