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HB-2010 HARMONIC BALANCER

PIONEER Inc
Automotive Products

HARMONIC BALANCERS

PIONEER Inc
Automotive Products

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*"Proud of the past...committed to the future"
is a slogan which accurately reflects Pioneer's heritage and its future.*

Pioneer, Inc. was founded in 1946 by the late Herman A. Shields, who owned a successful automotive parts manufacturer's representative firm in his hometown of Meridian, Mississippi. He formed the company to service the needs of his clutch remanufacturer customers. His goal was simple: Supply the needed, hard-to-find parts for these businesses.

Little did he know that the company he founded would become a leading supplier of high quality components to the automotive parts aftermarket. For over 30 years under the guidance of the Shields family, Pioneer growth was based upon the twin cornerstones of customer service and reputation of the "Source for hard-to-find parts."

In 1979, Pioneer was purchased by The Barnes Group (Bristol, Connecticut) and the company became known as Pioneer/Barnes. During the Barnes Group's ownership, Pioneer purchased a 10-acre parcel in the G.V. (Sonny) Montgomery Industrial Park and built an 86,000 sq. ft. corporate head-quarters and distribution center on the site.

The product line expanded dramatically during the Barnes years, adding operating cables, flywheels, ring gears, shop supplies and performance parts to the company's mix, while further expanding the clutch, engine parts and water pump lines. Additionally, Pioneer added regional warehouses in Mt. Laurel, New Jersey and Cerritos, California to provide improved delivery service to its East and West Coast customers.

Additionally, Pioneer has made major commitments to its total quality assurance programs. These quality performance processes have been adapted to order taking and filling, distribution and inventory controls, further improving fill rates and on-time delivery.

The distribution facilities have also undergone modernization. In 1995, the Meridian facility's distribution center was expanded, bringing the warehousing space to over 200,000 sq. ft.

In May, 2000, Pioneer bought the new clutch business of L&S and through this acquisition have added New Clutch Kits to form a "5 Star" line-up which includes Powertrain, Transmission Parts, Engine and Transmission Mounts, and Harmonic Balancers...giving Pioneer a strong and competitive package of Driveline related products.

In August 1, 2010 Industrias Automotrices Lodi S.A. de C.V. purchased the company from Doron Arad. Pioneer continues its focus on product line expansion and making major investments in product tooling.

For over 60 years, the Pioneer story has been unique. Pioneer's growth has been based upon the philosophy of Herman Shields that success must be based upon customer service and satisfaction. Pioneer's Mission Statement reflects that philosophy:

"We are committed to the success of our customers. Our mission will be to provide customers with quality product and superior service. We believe the dedication of our employees and business partners is our most valued resource."

While the philosophy may seem passé in today's business environment, it has served Pioneer well through over six decades.

GUARANTEE

All parts are guaranteed against defects in material and workmanship for a period of one year from the date of the original consumer purchase.

"Our obligation under this guarantee is limited to replacement of the defective part or, at our option, repayment of the purchase price, conditioned in either case upon the return of the part to us with an explanation of the circumstances and conditions under which failure occurred. We neither assume nor authorize any other person to assume for us any other liability. IN NO EVENT WILL PIONEER BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES, including claims for labor charges, transportation, or loss of revenue."

The information listed herein is correct to the best of our knowledge and belief, having been compiled from reliable and official sources of information. However, WE CANNOT ASSUME ANY RESPONSIBILITY FOR POSSIBLE ERROR.

*Thank you,
Pioneer, Inc. Automotive Products*

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Harmonic Balancers

Essential to Engine Reliability and Performance

Replacement “harmonic balancers” are fast becoming a hot item for today’s car owners.

The reason is “harmonic vibrations”— which can lead to a variety of mechanical failures.

Harmonic vibrations are specific and repeated vibration patterns which pass through an object. In today’s cars, such vibrations result from the combustion of the air-fuel mixture. Each time a cylinder

fires, the connecting rod pounds the crankshaft journal as the force turns the crankshaft—causing energy to be dispersed throughout the engine. Multiply this by the number of cylinders (with variations in engine speed) and you have what is commonly called harmonic vibration.

Rubber – The Key to Dampening Performance

Most harmonic balancers are simple but effective designs comprising of a hub attached to the crankshaft and a dampening (inertia) ring separated by a rubber based dampening medium. This dampening material is generally pressed between the two metal surfaces to form an interference fit.

In high performance production engines and a select few performance balancers (including Pioneer’s high performance and heavy duty balancers) the dampening rubber is bonded to the metal surfaces under heat and pressure to make a much more durable assembly capable of withstanding the forces of high torque and RPM’s. This process is more expensive, but it improves the performance and durability of the product over time.

Dampening rubber deteriorates over time through exposure to heat, chemicals, salt, and ozone. The dampening performance of the balancer deteriorates as the rubber hardens and interference between

rubber and metal components is reduced. As a result the inertia ring will tend to spin, run out and eventually fall off. Early symptoms of this problem are loss of ignition timing accuracy, as the timing marks on the ring shift. Deterioration of the dampening rubber is evident in a hardening of the rubber, leading to cracking and tearing of material.

The problem of inertia ring dislocation is made worse in later model engines where the balancer ring also functions as a drive pulley for accessory belts. The extra load on the balancer often accelerates unwanted movement in the ring and the balancer fails.

To combat these problems with balancer rubber, all Pioneer standard replacement balancers utilize a very specialized dampening material formula that exhibits superior resistance to heat and chemicals while retaining shape and density over time to maximize interference fit in the long term.

Raw Material – The Key to Balancer Durability

The base material for most standard replacement balancers is cast iron used to lower production cost and achieve target balancer weight in the most compact form. Many manufacturers use what is termed “regular grey” iron in their castings to achieve the lowest possible production cost. Grey iron is not a durable base material for harmonic balancers as it is prone to cracking in heavy, vibrating components such as balancers. The material is relatively soft and prone to rapid wear in the balancer seal area, leading to timing cover seal leaks and premature repair or replacement.

All Pioneer balancers are manufactured from premium grade nodular (S.G.) iron similar to the highly durable material used in many crankshafts. Both hubs and inertia rings are produced in nodular iron unlike other brands where a nodular iron center may be used with a “grey iron” ring to reduce cost. Inertia Rings are also prone to cracking, particularly where balancing holes are drilled. Nodular iron adds more cost but is well worth the investment through improved performance. Pioneer’s Balancers are highly resistant to cracking and wear in the key way and seal area, adding significantly to long-term balancer durability.

Harmonic Balancers – Continued:

O.E.M. Specification Insures Reliable Performance

The combination of cast iron components and common assembly processes using basic presses give scope for wide variations in assembly consistency and balance. It is not uncommon for new balancers to have significant run out in the inertia rings and inaccuracy in counter weights, greatly compromising the harmonic balancers performance.

Great care is taken in the design and assembly of every Pioneer balancer to insure that the product replicates the OEM balancers in terms of dimension, weight and assembly tolerances to insure easy fitting and reliability of performance.

Balancer Function in Engine Management

Many late model engines using computer controlled engine management use a crank trigger and “timing wheel”, which forms part of the harmonic balancer as a data reference. If the crank wheel or trigger becomes damaged by impact from road debris or from runout in the balancer rotation, computer function can be compromised or cease operation completely. Replacement of the balancer and matching crank trigger is then necessary to restore correct computer operation of the engine.

A similar problem exists on distributor ignition engines where ignition timing is referenced from the

balancer inertia ring. When the inertia ring spins in relation to the hub due to insufficient interference in the dampening rubber, the tuner’s ability to set ignition timing and maintain engine performance is limited.

In production of Pioneer’s balancers great care is taken to exactly duplicate the form and position of balancer ignition triggers to insure OEM performance standards are restored with the installation of the new balancer. Every balancer with a timing wheel is tested in production to insure timing accuracy.

A New Balancer should look as good as it Performs

Cast iron is extremely prone to corrosion and anyone who has unpacked a new harmonic balancer already rusting in the box knows this is a problem.

Every Pioneer harmonic balancer undergoes a multi-stage cleaning and painting process that insures the product arrives rust free and looking like a new harmonic balancer should.

Balancer Damage Indicators:

The following easily checked symptoms would tell you it’s time for a new Pioneer Harmonic Balancer:

- Timing marks on inertia ring move, making engine timing difficult
- Run out in inertia ring
- Noticeable change in engine vibrations
- Bearing damage evident on engine disassembly
- Oil leak from timing cover crankshaft oil seal
- Fan belts and/or accessory drive belts breaking
- Noisy or rapidly wearing drive belts
- Balancer rubber has hardened, cracked, frayed or torn
- Cracks in balancer casting, particularly in hub web, between balance holes or in crank nose or key ways

**For complete selection of quality automotive products,
ask for information on Pioneer Products listed below.**

ENGINE COMPONENTS

- EXPANSION PLUGS & KITS
- SPECIALITY ENGINE PARTS
 - Fastener
 - Oil System Components
 - Harmonic Balancer Repair Sleeves
 - Pipe Plugs
 - Pilot Bushings
- HARMONIC BALANCERS
- OIL PUMPS & COMPONENTS
- VALVE TRAIN COMPONENTS
 - Valves
 - Valve Keys
 - Valve Retainers
 - Push Rods
 - Rocker Arm & Related Items
 - Valve Guides
 - Valve Seals
 - Valve Springs
 - Lifters

POWERTRAIN PRODUCTS

- CABLES
 - Accelerator
 - Brake
 - Clutch
 - Control
 - Detent
 - Ground Strap
 - Manual Transshift
 - Miscellaneous
 - Speedometer
 - Transshift
- FLYWHEEL ASSEMBLIES
- FLYWHEEL RING GEARS
- CLUTCH FORKS AND ADJUSTERS
- ALIGNMENT TOOLS
- STANDARD FLYWHEELS

TRANSMISSION PRODUCTS

- Filter Kits
- Gasket Kits
- Overhaul Kits
- Banner Kits
- Master Kits
- Super Kits
- Modulators
- Seals & Bushings
- Clutch Plates
- Sprag Kits
- Valve Body Kits
- AND MUCH MORE!**

HIGH PERFORMANCE

- CYLINDER HEAD COMPONENTS
 - Complete Valve Train Parts
- SHORT BLOCK COMPONENTS:
 - Expansion plugs, Fastener, Oil Pumps, Pilot Bushings, Miscellaneous Components
- FASTENERS;
 - 12 Point & Miscellaneous, Rod Bolts & Nuts, Head Studs & Bolts, Main Studs & Bolts
- MISCELLANEOUS:
 - Spring Inserts, Repair Sleeves, Flywheel Assemblies, Tools

SHOP SUPPLIES

- **ABRASIVES:**
 - Bonded - Grinding Wheels, Stones, Segments, Hones, Diamond Tools
 - Coated - Sanding, Polishing, Chamfering
- **CUTTERS:**
 - Carbide, Boring Bar, Files, Rotary, Blade, Box
- **BRUSHES:**
 - Wheel, End, Cup, Loop, Scratch, Gallery, Cleaning, Brooms
- **CHEMICALS:**
 - Paint, Adhesives, Aerosols, Cleaners, Solvents, Oils, Sealants, Silicone, Leak Detection
- **FASTENERS:**
 - Grade 5, Grade 8, Metric, Specialty, Assortments, Thread Repair
- **TOOLS & ACCESSORIES:**
 - Valve Equipment, Pullers, Crack Repair, Measuring Instruments, Brake Tools, Safety Equip. & Assess.

MOUNTS

- ENGINE MOUNTS - Solid
- ENGINE MOUNTS - Hydraulic
- TRANSMISSION MOUNTS
- TORQUE MOUNTS
- DRIVE SHAFT CENTER SUPPORT MOUNTS
- SUSPENSION STRUT MOUNTS
- BODY MOUNTS

CALL TOLL-FREE – 1-800-647-6272 OR MAIL TO P.O. BOX 490, MARION, MS 39342

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
ACURA						
CL						
1997	L4	2.2	2156		DA-220	
1998-99	L4	2.3	2254		DA-224	
AMERICAN MOTORS						
AMX						
1978-80	L6	4.2	258	1.25" Thick	DA-258	
CONCORD, SPIRIT						
1978-79	L6	3.8	232	1.25" Thick	DA-258	
1978-80	L6	4.2	258	1.25" Thick	DA-258	
EAGLE						
1980	L6	4.2	258		DA-258	
1984	L4	2.5	150	w/Serpentine Belt	DA-240	
GREMLIN, HORNET, PACER						
1975-78	L6	3.8	232	1.25" Thick	DA-258	
1975-80	L6	4.2	258	1.25" Thick	DA-258	
MATADOR						
1975-78	L6	4.2	258	1.25" Thick	DA-258	
BUICK						
APOLLO						
1973-74	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1975	L6	4.1	250		DA-2502	
1975	V8	4.3	260		DA-3072	
CENTURY						
1987-92	L4	2.5	151		DA-151	
1986	V6	2.8	173	Stamped 4874	DA-1731	
1986	V6	2.8	173	Stamped 4955	DA-1890	
1987-89	V6	2.8	173	w/AT	DA-1732	
1994-05	V6	3.1	189		DA-1893	
1989-93	V6	3.3	204	7.07" Pulley Diameter; Overall Weight 7.72lbs.	DA-2322	
1990	V6	3.3	204	7.07" Pulley Diameter; Overall Weight 7.94lbs.	DA-2321	
1986-88	V6	3.8	231		DA-2311	
1977-80	V8	5.0	305		DA-3051	
1977	V8	5.7	350	Vin Code "R"; 6.50" Diameter	DA-4552	
1977-79	V8	5.7	350	Vin Code "L"; 6.74" Diameter	DA-3051	
1977	V8	6.6	403		DA-4552	
ELECTRA						
1986-87	V6	3.8	231	Stamped 25527381 or 25527009	DA-2311	
1986-87	V6	3.8	231	Stamped 25532179	DA-2324	
1987-90	V6	3.8	231	7 1/8" Diameter	DA-2312	DA-2312-HD
1981-84	V8	5.0	307		DA-3072	
1977-78	V8	5.7	350		DA-4552	
1979-80	V8	5.7	350		DA-3072	
1977-78	V8	6.6	403		DA-4552	
1979	V8	6.6	403		DA-3072	
ESTATE WAGON						
1977-78	V8	5.7	350		DA-4552	
1979	V8	5.7	350		DA-3072	
1977-78	V8	6.6	403		DA-4552	
1979	V8	6.6	403		DA-3072	
LESABRE						
1986-88	V6	3.8	231	Stamped 25527381 or 25527009	DA-2311	
1986-88	V6	3.8	231	Stamped 25532179	DA-2324	
1988-91	V6	3.8	231	7 1/8" Diameter	DA-2312	DA-2312-HD
1991-92	V6	3.8	231	7" Diameter	DA-2314	DA-2314-HD
1993-94	V6	3.8	231		DA-2315	DA-2315-HD

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
BUICK (con't)						
LESABRE (con't)						
1995	V6	3.8	231	SFI	DA-2315	DA-2315-HD
1995	V6	3.8	231	MFI	DA-2316	
1996-99	V6	3.8	231		DA-2316	
1978	V8	5.0	305		DA-3051	
1981-85	V8	5.0	307		DA-3072	
1977-78	V8	5.7	350		DA-4552	
1979-80	V8	5.7	350		DA-3072	
1975	V8	6.6	400		DA-4551	DA-4551-HD
1977-78	V8	6.6	403		DA-4552	
PARK AVENUE						
1991	V6	3.8	231	7 1/8" Diameter	DA-2312	DA-2312-HD
1991-92	V6	3.8	231	7" Diameter	DA-2314	DA-2314-HD
1992	V6	3.8	231	Supercharged	DA-2328	
1993-94	V6	3.8	231	Supercharged	DA-3523	
1993-94	V6	3.8	231		DA-2315	DA-2315-HD
1995-99	V6	3.8	231	Supercharged	DA-2318	
1995-99	V6	3.8	231	exc. Supercharged	DA-2316	
REATA						
1988-90	V6	3.8	231	7 1/8" Diameter	DA-2312	DA-2312-HD
1991	V6	3.8	231	7" Diameter	DA-2314	DA-2314-HD
REGAL						
1988-89	V6	2.8	173	w/AT	DA-1732	
1989-92	V6	3.1	189		DA-1732	
1993	V6	3.1	189	exc. California	DA-1732	
1994-96	V6	3.1	189		DA-1893	
1990-91	V6	3.8	231	7 1/8" Diameter	DA-2312	DA-2312-HD
1990-92	V6	3.8	231	7" Diameter	DA-2314	DA-2314-HD
1993-94	V6	3.8	231		DA-2315	DA-2315-HD
1995	V6	3.8	231	SFI	DA-2315	DA-2315-HD
1995	V6	3.8	231	MFI	DA-2316	
1996-04	V6	3.8	231	exc. Supercharged	DA-2316	
1997-04	V6	3.8	231	Supercharged	DA-2318	
1977-80	V8	5.0	305		DA-3051	
1986-87	V8	5.0	307		DA-3072	
1977	V8	5.7	350	Vin Code "L"; 6.74" Diameter	DA-3051	
1977	V8	5.7	350	Vin Code "R"; 6.50" Diameter	DA-4552	
RIVIERA						
1986-87	V6	3.8	231	7.22" Diameter	DA-2324	
1987	V6	3.8	231	7" Diameter	DA-2311	
1988-91	V6	3.8	231	7 1/8" Diameter	DA-2312	DA-2312-HD
1991-92	V6	3.8	231	7" Diameter	DA-2314	DA-2314-HD
1993	V6	3.8	231		DA-2315	DA-2315-HD
1995	V6	3.8	231	Casting 24502031	DA-2318	
1995-97	V6	3.8	231	exc. Supercharged	DA-2316	
1996-99	V6	3.8	231	Supercharged	DA-2318	
1980-85	V8	5.0	307		DA-3072	
1977-78	V8	5.7	350		DA-4552	
1980	V8	5.7	350		DA-3072	
1977-78	V8	6.6	403		DA-4552	
ROADMASTER						
1991	V8	5.0	305		DA-3051	
1992-93	V8	5.7	350		DA-3051	
1994-96	V8	5.7	350		DA-3505	
SKYLARK						
1988-95	L4	2.3	138		DA-1460	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
BUICK (con't)						
SKYLARK (con't)						
1996-98	L4	2.4	146		DA-1460	
1968-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1968-71	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1982-85	V6	2.8	173	Stamped 4955	DA-1890	
1984-85	V6	2.8	173	Stamped 4874	DA-1731	
1994-98	V6	3.1	189		DA-1893	
1989-92	V6	3.3	204		DA-2322	
1993	V6	3.3	204		DA-2323	
1975-76	V8	4.3	260		DA-3072	
1977-79	V8	5.0	305		DA-3051	
1977	V8	5.7	350	Vin Code "R"; 6.50" Diameter	DA-4552	
1977-79	V8	5.7	350	Vin Code "L"; 6.74" Diameter	DA-3051	
SPECIAL						
1968-69	L6	4.1	250	Single V Groove Pulley	DA-2500	
1968-69	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
BUICK TRUCK						
RAINIER						
2004-05	V8	5.3	323		DA-3510	
2006-07	V8	5.3	325		DA-3510	
RENDEZVOUS						
2002-05	V6	3.4	207		DA-1893	
CADILLAC						
ALLANTE						
1987-88	V8	4.1	250		DA-4159	
1989-92	V8	4.5	273		DA-4159	
BROUGHAM						
1987	V8	5.0	307	RWD; Vin Code "9"	DA-4552	
1987-90	V8	5.0	307	RWD; Vin Code "Y"	DA-3072	
1989-90	V8	5.0	307	RWD; Vin Code "9"	DA-4552	
1991-92	V8	5.0	305	RWD	DA-3051	
1990-92	V8	5.7	350	RWD	DA-3051	
CATERA						
1997-01	V6	3.0	181		DA-3001	
CIMARRON						
1987-88	V6	2.8	173	w/AT	DA-1732	
CTS						
2003-04	V6	3.2	197		DA-3001	
2004-05	V8	5.7	346		DA-3508	
DEVILLE						
1986-87	V8	4.1	250		DA-4159	
1988-90	V8	4.5	273		DA-4159	
1994-99	V8	4.6	281		DA-1735	
1991-95	V8	4.9	300		DA-4159	
ELDORADO						
1986-87	V8	4.1	250		DA-4159	
1988-90	V8	4.5	273		DA-4159	
1994-99	V8	4.6	281		DA-1735	
1991-93	V8	4.9	300		DA-4159	
1979	V8	5.7	350		DA-4552	
1980	V8	5.7	350		DA-3072	
FLEETWOOD						
1986-87	V8	4.1	250	FWD	DA-4159	
1988-90	V8	4.5	273	FWD	DA-4159	
1991-92	V8	4.9	300	FWD	DA-4159	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
CHEVROLET (con't)						
BISCAYNE (CON'T)						
1966-69	V8	7.0	427	Special Hi-Performance	DA-427	DA-427-HD
1970-72	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1971-72	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
BROOKWOOD						
1969	L6	4.1	250	Single V Groove Pulley	DA-2500	
1969	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/4-Bbl Carb	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	exc. Special Hi-Performance	DA-3071	DA-3071-HD
1971-72	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1970	V8	6.6	400	2-Bbl Carb	DA-400	DA-400-HD
1970	V8	6.6	400	4-Bbl Carb	DA-396	
1972	V8	6.6	400	2-Bbl Carb	DA-400	DA-400-HD
1972	V8	6.6	400	4-Bbl Carb	DA-396	
1972	V8	6.6	402		DA-396	
CAMARO						
1967-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1968-74	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1975-76	L6	4.1	250		DA-2502	
1977-79	L6	4.1	250		DA-2503	
1982-87	V6	2.8	173	Stamped 9033	DA-1733	
1982-87	V6	2.8	173	Stamped 4955	DA-1890	
1988-89	V6	2.8	173		DA-1890	
1990-92	V6	3.1	189		DA-1890	
1980-81	V6	3.8	229		DA-2313	
1980-81	V6	3.8	231		DA-2313	
1995-96	V6	3.8	231		DA-2316	
1997	V6	3.8	231	w/AT	DA-2316	
1969	V8	5.0	302	6" Diameter	DA-3270	DA-3270-HD
1976	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1977-92	V8	5.0	305	Hollow Back	DA-3051	
1985-87	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1988-89	V8	5.0	305	Solid	DA-3071	DA-3071-HD
1990-92	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1969-73	V8	5.0	307	6" Diameter	DA-3270	DA-3270-HD
1967-69	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1969	V8	5.4	327	Solid w/6.73 Ring Dia	DA-3071	DA-3071-HD
1967	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/4-Bbl Carb	DA-3502	DA-3502-HD
1971-74	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1971-75	V8	5.7	350	exc. Special Hi-Performance	DA-3071	DA-3071-HD
1976	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1977-81	V8	5.7	350		DA-3051	
1987-92	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1993-97	V8	5.7	350	w/5 Poly Vees; OE #12551138	DA-3505	
1998-02	V8	5.7	350	w/3 & 5 Poly Vees; OE # 1253118	DA-3507	
1967-70	V8	6.5	396	exc. Special Hi-Performance	DA-396	
1967-70	V8	6.5	396	Special Hi-Performance	DA-427	DA-427-HD
1970-71	V8	6.6	402	exc. Special Hi-Performance	DA-396	
1970-71	V8	6.6	402	8" Diameter w/counterweight	DA-400	DA-400-HD
1972	V8	6.6	402		DA-396	
1969	V8	7.0	427	exc. Special Hi-Performance	DA-396	
CAPRICE						
1967-69	L6	4.1	250	Single V Groove Pulley	DA-2500	
1967-69	L6	4.1	250	w/o AC; w/o HDC	DA-2501	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
CHEVROLET (con't)						
CAPRICE (con't)						
1977-79	L6	4.1	250	w/o AC	DA-2503	
1980-84	V6	3.8	229		DA-2313	
1980-84	V6	3.8	231		DA-2313	
1985-86	V6	4.3	262		DA-2313	
1992	V6	4.3	262		DA-2621	
1993	V6	4.3	262	Solid w/Balance Shaft	DA-2621	
1993	V6	4.3	262	Without Balance Shaft	DA-2622	
1994-96	V8	4.3	265		DA-3505	
1977-93	V8	5.0	305		DA-3051	
1986-90	V8	5.0	307		DA-3072	
1966-69	V8	5.4	327	6" Diameter	DA-3270-HD	
1966-69	V8	5.4	327	6" Diameter	DA-3270	
1969	V8	5.4	327		DA-3071	DA-3071-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/4-Bbl Carb	DA-3502	DA-3502-HD
1971	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1971-75	V8	5.7	350	exc. Special Hi-Performance	DA-3071	DA-3071-HD
1973	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1976	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1977-82	V8	5.7	350	Hollow Back	DA-3051	
1985-93	V8	5.7	350	w/6.74" Diameter; OE # 458653	DA-3051	
1994-96	V8	5.7	350	w/5 Poly Vees; OE #12551138	DA-3505	
1967-69	V8	6.5	396		DA-396	
1970-72	V8	6.6	400	2-Bbl Carb	DA-400	DA-400-HD
1970-72	V8	6.6	400	4-Bbl Carb	DA-396	
1973-76	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1971-72	V8	6.6	402		DA-396	
1966-69	V8	7.0	427	exc. Special Hi-Performance	DA-396	
1966-69	V8	7.0	427	Special Hi-Performance	DA-427	DA-427-HD
1970-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1970-76	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
CAVALIER						
1995	L4	2.3	138		DA-1460	
1996-02	L4	2.4	146		DA-1460	
1987-89	V6	2.8	173	w/AT	DA-1732	
1990-94	V6	3.1	189		DA-1732	
CELEBRITY						
1987-90	L4	2.5	151		DA-151	
1982-86	V6	2.8	173	Stamped 4874	DA-1731	
1982-86	V6	2.8	173	Stamped 4955	DA-1890	
1987-89	V6	2.8	173	w/AT	DA-1732	
1990	V6	3.1	189		DA-1732	
CHEVELLE						
1967-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1967-73	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1969-73	V8	5.0	307	6" Diameter	DA-3270	DA-3270-HD
1964-68	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/4-Bbl Carb	DA-3502	DA-3502-HD
1971-73	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1971-73	V8	5.7	350	exc. Special Hi-Performance	DA-3071	DA-3071-HD
1966-69	V8	6.5	396	Special Hi-Performance	DA-427	DA-427-HD
1967	V8	6.5	396	6" Diameter	DA-3270	DA-3270-HD
1967-69	V8	6.5	396	exc. Special Hi-Performance	DA-396	
1970-71	V8	6.6	400	2-Bbl Carb	DA-400	DA-400-HD
1970-71	V8	6.6	400	4-Bbl Carb	DA-396	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
CADILLAC (con't)						
FLEETWOOD (CON'T)						
1986	V8	5.0	307	RWD	DA-3072	
1993	V8	5.7	350	RWD	DA-3051	
1994-96	V8	5.7	350	RWD	DA-3505	
SEVILLE						
1986-87	V8	4.1	250		DA-4159	
1988-90	V8	4.5	273		DA-4159	
1994-99	V8	4.6	281		DA-1735	
1991-93	V8	4.9	300		DA-4159	
1976-78	V8	5.7	350		DA-4552	
1980	V8	5.7	350		DA-3072	
CADILLAC TRUCK						
ESCALADE						
2002-05	V8	5.3	325		DA-3510	
1999-00	V8	5.7	350		DA-3506	
2002-06	V8	6.0	364		DA-3510	
CHEVROLET						
BEL AIR						
1965-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1965-73	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1962-69	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1969	V8	5.4	327	6.73" Diameter	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/4-Bbl Carb	DA-3502	DA-3502-HD
1971-74	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1971-75	V8	5.7	350	exc. Special Hi-Performance	DA-3071	DA-3071-HD
1968-69	V8	6.5	396		DA-396	
1970-72	V8	6.6	400	2-Bbl Carb	DA-400	DA-400-HD
1971-72	V8	6.6	400	4-Bbl Carb	DA-396	
1973-75	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1971-72	V8	6.6	402		DA-396	
1966-69	V8	7.0	427	exc. Special Hi-Performance	DA-396	
1966-69	V8	7.0	427	Special Hi-Performance	DA-427	DA-427-HD
1970-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1970-75	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
BERETTA, CORSICA						
1990-92	L4	2.3	140	164mm Diameter	DA-1460	
1993-94	L4	2.3	140		DA-1460	
1987-89	V6	2.8	173	w/AT	DA-1732	
1990-92	V6	3.1	189		DA-1732	
1993	V6	3.1	189	exc. California	DA-1732	
1994-96	V6	3.1	189		DA-1893	
BISCAYNE						
1965-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1965-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1962-69	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1969	V8	5.4	327		DA-3071	DA-3071-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/4-Bbl Carb	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	exc. Special Hi-Performance	DA-3071	DA-3071-HD
1968-69	V8	6.5	396		DA-396	
1970-72	V8	6.6	400	2-Bbl Carb	DA-400	DA-400-HD
1970-72	V8	6.6	400	4-Bbl Carb	DA-396	
1971-72	V8	6.6	402		DA-396	
1966-69	V8	7.0	427	exc. Special Hi-Performance	DA-396	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
CHEVROLET (con't)						
CHEVELLE (CON'T)						
1970	V8	6.6	402		DA-396	
1972	V8	6.6	402		DA-396	
1970-73	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1970-73	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
CHEVY II						
1967-68	L6	4.1	250	Single V Groove Pulley	DA-2500	
1967-68	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1965-68	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1968	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1968	V8	6.5	396		DA-396	
CITATION						
1982-83	V6	2.8	173	Stamped 4955	DA-1890	
1984-85	V6	2.8	173	Stamped 4874	DA-1731	
1984-85	V6	2.8	173	Stamped 4955	DA-1890	
CORVETTE						
1980	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1962-68	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1969-71	V8	5.7	350	exc. Special Hi-Performance	DA-3502	DA-3502-HD
1972-74	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1972-80	V8	5.7	350	exc. Special Hi-Performance	DA-3071	DA-3071-HD
1976	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1981-82	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1984-91	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1990-95	V8	5.7	350	OE # 10225133	DA-3521	
1992-96	V8	5.7	350	w/MT	DA-3520	
1996	V8	5.7	350	w/AT	DA-3522	
1997-04	V8	5.7	350	LS1 Engine	DA-3508	
1966-69	V8	7.0	427	exc. Special Hi-Performance; w/Aluminum Heads	DA-396	
1966-69	V8	7.0	427	Special Hi-Performance	DA-427	DA-427-HD
1970-74	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1970-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
IMPALA						
1965-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1965-73	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1977-79	L6	4.1	250	w/o AC	DA-2503	
2000-05	V6	3.4	207		DA-1893	
1980-84	V6	3.8	229		DA-2313	
1980-84	V6	3.8	231		DA-2313	
2000-05	V6	3.8	231	exc. Supercharged	DA-2316	
2004-05	V6	3.8	231	Supercharged	DA-2318	
1985	V6	4.3	262		DA-2313	
1977-85	V8	5.0	305		DA-3051	
1962-69	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1969	V8	5.4	327	6.73" Diameter	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/4-Bbl Carb	DA-3502	DA-3502-HD
1970-74	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1971-75	V8	5.7	350	exc. Special Hi-Performance	DA-3071	DA-3071-HD
1976	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1976	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1977-85	V8	5.7	350	Hollow Back	DA-3051	
1982	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1994-96	V8	5.7	350	w/5 Poly Vees; OE #12551138	DA-3505	
1968-69	V8	6.5	396		DA-396	
1970-72	V8	6.6	400	2-Bbl Carb	DA-400	DA-400-HD
1970-72	V8	6.6	400	4-Bbl Carb	DA-396	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
CHEVROLET (con't)						
IMPALA						
1973-76	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1971-72	V8	6.6	402		DA-396	
1966-69	V8	7.0	427	exc. Special Hi-Performance	DA-396	
1966-69	V8	7.0	427	Special Hi-Performance	DA-427	DA-427-HD
1970-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1970-76	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
KINGSWOOD						
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/4-Bbl Carb	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	exc. Special Hi-Performance	DA-3071	DA-3071-HD
1970-72	V8	6.6	400	4-Bbl Carb	DA-396	
1970-72	V8	6.6	400	2-Bbl Carb	DA-400	DA-400-HD
1971-72	V8	6.6	402		DA-396	
1970	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1970	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1972	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1972	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
LAGUNA						
1976	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1973-74	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1973-75	V8	5.7	350	exc. Special Hi-Performance	DA-3071	DA-3071-HD
1976	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1976	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1974-76	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1973-74	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1973-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
LUMINA						
1990-92	L4	2.5	151		DA-151	
1990-92	V6	3.1	189		DA-1732	
1993	V6	3.1	189	exc. California	DA-1732	
1994	V6	3.1	189		DA-1732	
1995-01	V6	3.1	189		DA-1893	
1998-99	V6	3.8	231		DA-2316	
MALIBU						
1997-99	L4	2.4	146		DA-1460	
1967	L6	4.1	250	Single V Groove Pulley	DA-2500	
1973-74	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1975-76	L6	4.1	250		DA-2502	
1977	L6	4.1	250		DA-2503	
1997-03	V6	3.1	189		DA-1893	
1978-79	V6	3.3	200		DA-2313	
1980-83	V6	3.8	229		DA-2313	
1980-83	V6	3.8	231		DA-2313	
1976	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1977-83	V8	5.0	305		DA-3051	
1973	V8	5.0	307	6" Diameter	DA-3270	DA-3270-HD
1964-67	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1973-74	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1973-75	V8	5.7	350	exc. Special Hi-Performance	DA-3071	DA-3071-HD
1976	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1976	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1977-81	V8	5.7	350		DA-3051	
1966-67	V8	6.5	396	Special Hi-Performance	DA-427	DA-427-HD
1974-76	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1973-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
CHEVROLET (con't)						
MALIBU (con't)						
1973-75	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
MONTE CARLO						
1995-99	V6	3.1	189		DA-1893	
1978-79	V6	3.3	200		DA-2313	
2000-05	V6	3.4	207		DA-1893	
1980-84	V6	3.8	229		DA-2313	
1980-84	V6	3.8	231		DA-2313	
1998-05	V6	3.8	231		DA-2316	
1985-86	V6	4.3	262		DA-2313	
1976	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1977-88	V8	5.0	305		DA-3051	
1970	V8	5.7	350	exc. Special Hi-Performance; w/2-Bbl Carb	DA-3071	DA-3071-HD
1970	V8	5.7	350	exc. Special Hi-Performance; w/4-Bbl Carb	DA-3502	DA-3502-HD
1971-74	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1971-75	V8	5.7	350	exc. Special Hi-Performance	DA-3071	DA-3071-HD
1976	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1976	V8	5.7	350	8" Diameter	DA-3502-HD	
1977	V8	5.7	350		DA-3051	
1981	V8	5.7	350		DA-3051	
1970-72	V8	6.6	400	2-Bbl Carb	DA-400	DA-400-HD
1970-72	V8	6.6	400	4-Bbl Carb	DA-396	
1973-76	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1970-72	V8	6.6	402		DA-396	
1970-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1970-75	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
MONZA						
1975-76	V8	4.3	262	6" Diameter	DA-3270	DA-3270-HD
1976-79	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1975	V8	5.7	350	exc. Special Hi-Performance	DA-3071	DA-3071-HD
NOVA						
1967	L6	4.1	250	Single V Groove Pulley	DA-2500	
1967	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1969-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1969-74	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1975-76	L6	4.1	250		DA-2502	
1977-79	L6	4.1	250		DA-2503	
1975	V8	4.3	262	6" Diameter	DA-3270	DA-3270-HD
1976	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1977-79	V8	5.0	305		DA-3051	
1969-73	V8	5.0	307	6" Diameter	DA-3270	DA-3270-HD
1965-67	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/4-Bbl Carb	DA-3502	DA-3502-HD
1971-74	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1976	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1976	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1977-79	V8	5.7	350		DA-3051	
1969-70	V8	6.5	396		DA-396	
1970	V8	6.6	402		DA-396	
TOWNSMAN						
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/4-Bbl Carb	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	exc. Special Hi-Performance	DA-3071	DA-3071-HD
1970-72	V8	6.6	400	2-Bbl Carb	DA-400	DA-400-HD
1970-72	V8	6.6	400	4-Bbl Carb	DA-396	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
CHEVROLET (con't)						
TOWNSMAN (con't)						
1972	V8	6.6	402		DA-396	
1970	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1970	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1972	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1972	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
CHEVROLET TRUCK						
ASTRO						
1985-92	V6	4.3	262		DA-2621	
1993-94	V6	4.3	262	Solid w/Balance Shaft	DA-2621	
1993-94	V6	4.3	262	Without Balance Shaft	DA-2622	
1995	V6	4.3	262		DA-2621	
1996-05	V6	4.3	262		DA-1736	
AVALANCHE						
2008-09	V8	5.3	325		DA-3510	
2008-09	V8	6.0	364		DA-3510	
AVALANCHE 1500						
2002-05	V8	5.3	323		DA-3510	
2006	V8	5.3	325		DA-3510	
BLAZER						
1969-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1969-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1995-05	V6	4.3	262		DA-1736	
1987	V8	5.0	305		DA-3051	
1969-73	V8	5.0	307	6" Diameter	DA-3270	DA-3270-HD
1969-70	V8	5.7	350	2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	4-Bbl Carb	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1971-74	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1987-94	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1987-91	V8	6.2	379		DA-3790	
1994	V8	6.5	395	Solid	DA-3950	
1994	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1973	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1973	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
C10 PICKUP, C20 PICKUP, C30 PICKUP						
1966-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1966-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1975-76	L6	4.1	250		DA-2502	
1977-84	L6	4.1	250		DA-2503	
1985-86	V6	4.3	262		DA-2313	
1971	L6	4.8	292	w/o AC; w/o HDC	DA-2501	
1975-86	L6	4.8	292	2 Groove Pulley	DA-292	
1976	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1977-86	V8	5.0	305		DA-3051	
1969-73	V8	5.0	307	6" Diameter	DA-3270	DA-3270-HD
1962	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1964-68	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1969-70	V8	5.7	350	2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	4-Bbl Carb	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1971-77	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1974	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1977-86	V8	5.7	350	7.99" Ring Diameter	DA-3504	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
CHEVROLET TRUCK (con't)						
C10 PICKUP, C20 PICKUP, C30 PICKUP (con't)						
1980	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1982	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1966	V8	6.0	366		DA-366	
1982-86	V8	6.2	379		DA-3790	
1968-69	V8	6.5	396		DA-396	
1976-80	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1970-72	V8	6.6	402	2-Bbl Carb	DA-400	DA-400-HD
1970-72	V8	6.6	402	4-Bbl Carb	DA-396	
1973-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1973-86	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1986	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
C10 SUBURBAN, C20 SUBURBAN						
1968-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1968-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1977-80	L6	4.1	250		DA-2503	
1975-82	L6	4.8	292	2 Groove Pulley	DA-292	
1976	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1977-84	V8	5.0	305		DA-3504	
1985-86	V8	5.0	305		DA-3051	
1969-73	V8	5.0	307	6" Diameter	DA-3270	DA-3270-HD
1968	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1969-70	V8	5.7	350	2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	4-Bbl Carb	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1971-76	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1974	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1977-86	V8	5.7	350	7.99" Ring Diameter	DA-3504	
1980	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1982	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1982-86	V8	6.2	379		DA-3790	
1968-69	V8	6.5	396		DA-396	
1976-80	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1970	V8	6.6	402	4-Bbl Carb	DA-396	
1970	V8	6.6	402	2-Bbl Carb	DA-400	DA-400-HD
1973-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1973-86	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1986	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
C1500 PICKUP, C2500 PICKUP						
1988-92	V6	4.3	262		DA-2621	
1993	V6	4.3	262	Solid w/Balance Shaft	DA-2621	
1993-95	V6	4.3	262	Without Balance Shaft	DA-2622	
1996-97	V6	4.3	262		DA-1736	
1988-95	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1988-95	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1996-00	V8	5.7	350		DA-3506	
1988-93	V8	6.2	379	Solid w/V-Belt Pulley	DA-3790	
1988-93	V8	6.2	379	Serpentine Belt Pulley	DA-3955	
1992-93	V8	6.5	395	Solid w/V-Belt Pulley	DA-3790	
1992-00	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1994-00	V8	6.5	395	Solid	DA-3950	
1990	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1991-93	V8	7.4	454	8" Ring Diameter	DA-4542	
1992	V8	7.4	454	8" Diameter w/counterweight	DA-4541	DA-4541-HD
1992	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
CHEVROLET TRUCK (con't)						
C1500 SUBURBAN, C2500 SUBURBAN						
1992-95	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1996-99	V8	5.7	350		DA-3506	
1994-99	V8	6.5	395	Solid	DA-3950	
1994-99	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1992	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1992-93	V8	7.4	454	8" Ring Diameter	DA-4542	
C3500 PICKUP						
1988-95	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1996-00	V8	5.7	350		DA-3506	
1988-93	V8	6.2	379	Solid w/V-Belt Pulley	DA-3790	
1988-93	V8	6.2	379	Serpentine Belt Pulley	DA-3955	
1992-02	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1992-93	V8	6.5	395	Solid w/V-Belt Pulley	DA-3790	
1994-02	V8	6.5	395	Solid	DA-3950	
1988-89	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1988-90	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1991-93	V8	7.4	454	8" Ring Diameter	DA-4542	
EL CAMINO						
1967-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1967-73	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1975-76	L6	4.1	250		DA-2502	
1977	L6	4.1	250		DA-2503	
1978-79	V6	3.3	200		DA-2313	
1980-84	V6	3.8	229		DA-2313	
1980-84	V6	3.8	231		DA-2313	
1985-86	V6	4.3	262		DA-2313	
1976	V8	5.0	305		DA-3071	DA-3071-HD
1977-87	V8	5.0	305		DA-3051	
1969-73	V8	5.0	307	6" Diameter	DA-3270	DA-3270-HD
1964-68	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1977-79	V8	5.7	350		DA-3051	
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	exc. Special Hi-Performance; w/4-Bbl Carb	DA-3502	DA-3502-HD
1971-75	V8	5.7	350	exc. Special Hi-Performance	DA-3071	DA-3071-HD
1971-76	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1976	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1966-69	V8	6.5	396	Special Hi-Performance	DA-427	DA-427-HD
1967-69	V8	6.5	396	exc. Special Hi-Performance	DA-396	
1970	V8	6.6	400	4-Bbl Carb	DA-396	
1970	V8	6.6	400	2-Bbl Carb	DA-400	DA-400-HD
1974-76	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1971-72	V8	6.6	402		DA-396	
1970-74	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1970-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
EXPRESS 1500						
1996-09	V6	4.3	262		DA-1736	
2003-05	V8	5.3	323		DA-3510	
2006-09	V8	5.3	325		DA-3510	
1996-02	V8	5.7	350		DA-3506	
EXPRESS 2500						
1996-05	V6	4.3	262		DA-1736	
2003-09	V8	4.8	294		DA-3510	
2003-05	V8	5.3	323		DA-3510	
1996-02	V8	5.7	350		DA-3506	
2003-09	V8	6.0	364		DA-3510	
1996-02	V8	6.5	395	Solid	DA-3950	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
CHEVROLET TRUCK (con't)						
EXPRESS 2500 (con't)						
1996-02	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
EXPRESS 3500						
2006-09	V8	4.8	294		DA-3510	
1996-02	V8	5.7	350		DA-3506	
2003-09	V8	6.0	364		DA-3510	
1996-02	V8	6.5	395	Solid	DA-3950	
1996-02	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
G10 VAN, G20 VAN, G30 VAN						
1967-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1967-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1975-76	L6	4.1	250		DA-2502	
1977-84	L6	4.1	250		DA-2503	
1971	L6	4.8	292	w/o AC; w/o HDC	DA-2501	
1975-79	L6	4.8	292	2 Groove Pulley	DA-292	
1985-92	V6	4.3	262		DA-2621	
1993-94	V6	4.3	262	Solid w/Balance Shaft	DA-2621	
1993-96	V6	4.3	262	Without Balance Shaft	DA-2622	
1995	V6	4.3	262	Under 8500 Lb GVW	DA-2621	
1996	V6	4.3	262	Solid	DA-1736	
1977-95	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1969-73	V8	5.0	307	6" Diameter	DA-3270	DA-3270-HD
1970	V8	5.7	350	2-Bbl Carb	DA-3071	DA-3071-HD
1970	V8	5.7	350	4-Bbl Carb	DA-3502	DA-3502-HD
1971-72	V8	5.7	350		DA-3071	DA-3071-HD
1973-96	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1983-91	V8	6.2	379		DA-3790	
1992-93	V8	6.2	379	Solid w/V-Belt Pulley	DA-3790	
1992-93	V8	6.2	379	Serpentine Belt Pulley	DA-3955	
1994-96	V8	6.5	395	Solid	DA-3950	
1994-96	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1975-80	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1974	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1974-76	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1988-90	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1991-93	V8	7.4	454	8" Ring Diameter	DA-4542	
K10 PICKUP, K20 PICKUP, K30 PICKUP						
1966-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1966-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1975-76	L6	4.1	250		DA-2502	
1977-84	L6	4.1	250		DA-2503	
1985-86	V6	4.3	262		DA-2313	
1975-86	L6	4.8	292	2 Groove Pulley	DA-292	
1977-86	V8	5.0	305		DA-3051	
1969-73	V8	5.0	307	6" Diameter	DA-3270	DA-3270-HD
1962	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1964-68	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1969-70	V8	5.7	350	2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	4-Bbl Carb	DA-3502	DA-3502-HD
1969-76	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1971-72	V8	5.7	350		DA-3071	DA-3071-HD
1977-86	V8	5.7	350	7.99" Ring Diameter	DA-3504	
1982	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1966	V8	6.0	366		DA-366	
1982-86	V8	6.2	379		DA-3790	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
CHEVROLET TRUCK (con't)						
K10 PICKUP, K20 PICKUP, K30 PICKUP (con't)						
1968-69	V8	6.5	396		DA-396	
1975-80	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1970-71	V8	6.6	402	4-Bbl Carb	DA-396	
1970-71	V8	6.6	402	2-Bbl Carb	DA-400	DA-400-HD
1973-74	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1973-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1976-86	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1986	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
K10 SUBURBAN, K20 SUBURBAN						
1968-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1968-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1975-76	L6	4.1	250		DA-2502	
1977-80	L6	4.1	250		DA-2503	
1975-82	L6	4.8	292	2 Groove Pulley	DA-292	
1976	V8	5.0	305		DA-3071	DA-3071-HD
1977-84	V8	5.0	305		DA-3504	
1985-86	V8	5.0	305		DA-3051	
1969-73	V8	5.0	307	6" Diameter	DA-3270	DA-3270-HD
1968	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1969-70	V8	5.7	350	2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	4-Bbl Carb	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1971-76	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1977-86	V8	5.7	350	7.99" Ring Diameter	DA-3504	
1980	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1982	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1982-86	V8	6.2	379		DA-3790	
1968-69	V8	6.5	396		DA-396	
1975-80	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1970	V8	6.6	402	4-Bbl Carb	DA-396	
1970	V8	6.6	402	2-Bbl Carb	DA-400	DA-400-HD
1972	V8	6.6	402	4-Bbl Carb	DA-396	
1972	V8	6.6	402	2-Bbl Carb	DA-400	DA-400-HD
1973	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1985	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
K1500 PICKUP, K2500 PICKUP						
1988-92	V6	4.3	262		DA-2621	
1993	V6	4.3	262	Solid w/Balance Shaft	DA-2621	
1993-95	V6	4.3	262	Without Balance Shaft	DA-2622	
1996-98	V6	4.3	262		DA-1736	
1988-95	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1988-95	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1996-00	V8	5.7	350		DA-3506	
1988-93	V8	6.2	379	Solid w/V-Belt Pulley	DA-3790	
1988-93	V8	6.2	379	Serpentine Belt Pulley	DA-3955	
1992-00	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1992-93	V8	6.5	395	Solid w/V-Belt Pulley	DA-3790	
1994-00	V8	6.5	395	Solid	DA-3950	
1991-93	V8	7.4	454	8" Ring Diameter	DA-4542	
1992	V8	7.4	454	8" Diameter w/counterweight	DA-4541-HD	DA-4541-HD
1992-95	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1996-99	V8	5.7	350		DA-3506	
1994-99	V8	6.5	395	Solid	DA-3950	
1994-99	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1992	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
CHEVROLET TRUCK (con't)						
K1500 SUBURBAN, K2500 SUBURBAN						
1992-93	V8	7.4	454	8" Ring Diameter	DA-4542	
K3500 PICKUP						
1988-95	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1996-00	V8	5.7	350		DA-3506	
1988-93	V8	6.2	379	Solid w/V-Belt Pulley	DA-3790	
1988-93	V8	6.2	379	Serpentine Belt Pulley	DA-3955	
1992-00	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1992-93	V8	6.5	395	Solid w/V-Belt Pulley	DA-3790	
1994-00	V8	6.5	395	Solid	DA-3950	
1988-89	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1988-90	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1991-93	V8	7.4	454	8" Ring Diameter	DA-4542	
1992	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
LUMINA APV						
1996	V6	3.4	207		DA-1893	
1992	V6	3.8	231	7" Diameter	DA-2314	DA-2314-HD
1993-94	V6	3.8	231		DA-2315	DA-2315-HD
1995	V6	3.8	231		DA-2316	
P10 SERIES						
1962	V8	5.4	327	6" Diameter	DA-3270-HD	DA-3270-HD
P10 VAN						
1968-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1968-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1975-80	L6	4.8	292	2 Groove Pulley	DA-292	
1979	V8	5.0	305		DA-3051	
1973	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1975	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1977	V8	5.7	350	Motorhome	DA-3502	DA-3502-HD
1977-78	V8	5.7	350	exc. Motorhome	DA-3504	
1977	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1973	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1973	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
P20 SERIES, P30 SERIES						
1966	L6	4.1	250	Single V Groove Pulley	DA-2500	
1966	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1962	V8	5.4	327	6" Diameter	DA-3270-HD	DA-3270-HD
1966-67	V8	6.0	366		DA-366	
P20 VAN						
1970-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1970-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1975-89	L6	4.8	292	2 Groove Pulley	DA-292	
1969	V8	5.0	307		DA-3270	DA-3270-HD
1970	V8	5.7	350	2-Bbl Carb	DA-3071	DA-3071-HD
1970	V8	5.7	350	4-Bbl Carb	DA-3502	DA-3502-HD
1971-72	V8	5.7	350		DA-3071	DA-3071-HD
1973-76	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1977	V8	5.7	350	Motorhome	DA-3502	DA-3502-HD
1977-82	V8	5.7	350	exc. Motorhome	DA-3504	
1980-82	V8	5.7	350	Motorhome	DA-3502	DA-3502-HD
1983-86	V8	5.7	350		DA-3504	
1987-89	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1982-89	V8	6.2	379		DA-3790	
1970-71	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1970-71	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
CHEVROLET TRUCK (con't)						
P20 VAN (con't)						
1973	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1973	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1976	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1979	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
P30 VAN						
1970-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1970-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1976	L6	4.1	250		DA-2502	
1979	L6	4.1	250		DA-2503	
1975-89	L6	4.8	292	2 Groove Pulley	DA-292	
1990-92	V6	4.3	262		DA-2621	
1993-94	V6	4.3	262	Solid w/Balance Shaft	DA-2621	
1993-95	V6	4.3	262	Without Balance Shaft	DA-2622	
1996-99	V6	4.3	262		DA-1736	
1969	V8	5.0	307		DA-3270	DA-3270-HD
1970	V8	5.7	350	2-Bbl Carb	DA-3071	DA-3071-HD
1971-72	V8	5.7	350		DA-3071	DA-3071-HD
1970	V8	5.7	350	4-Bbl Carb	DA-3502	DA-3502-HD
1971-74	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1975-76	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1977	V8	5.7	350	Motorhome	DA-3502	DA-3502-HD
1980-82	V8	5.7	350	Motorhome	DA-3502	DA-3502-HD
1987-95	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1977-82	V8	5.7	350	exc. Motorhome	DA-3504	
1983-86	V8	5.7	350		DA-3504	
1996-99	V8	5.7	350		DA-3506	
1982-91	V8	6.2	379		DA-3790	
1992-93	V8	6.2	379	Solid w/V-Belt Pulley	DA-3790	
1992-93	V8	6.2	379	Serpentine Belt Pulley	DA-3955	
1994-99	V8	6.5	395	Solid	DA-3950	
1994-99	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1976	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1972	V8	6.6	402	2-Bbl Carb	DA-400	DA-400-HD
1972	V8	6.6	402	4-Bbl Carb	DA-396	
1970-71	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1970-71	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1973-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1973-90	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1986-89	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1991-93	V8	7.4	454	8" Ring Diameter	DA-4542	
1992	V8	7.4	454	8" Diameter w/counterweight	DA-4541-HD	DA-4541-HD
R10, V10						
1987	V6	4.3	262		DA-2313	
1987	V8	5.0	305		DA-3051	
1987	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1987	V8	6.2	379		DA-3790	
R10 SUBURBAN, V10 SUBURBAN						
1987	V8	5.0	305		DA-3051	
1987-88	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1987-88	V8	6.2	379		DA-3790	
R1500 SUBURBAN, V1500 SUBURBAN						
1989-91	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1989-91	V8	6.2	379		DA-3790	
R20, V20						
1987-88	L6	4.8	292	2 Groove Pulley	DA-292	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
CHEVROLET TRUCK (con't)						
R20, V20 (con't)						
1987	V6	4.3	262		DA-2313	
1987	V8	5.0	305		DA-3051	
1987-88	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1987-88	V8	6.2	379		DA-3790	
1987-88	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1987-88	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
R20 SUBURBAN, V20 SUBURBAN						
1987-88	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1987-88	V8	6.2	379		DA-3790	
1987-88	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1987-88	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
R2500, V2500						
1989	V8	6.2	379		DA-3790	
1989	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1989	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
R2500 SUBURBAN, V2500 SUBURBAN						
1989-91	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1989-91	V8	6.2	379		DA-3790	
1989	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1989-90	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1991	V8	7.4	454	8" Ring Diameter	DA-4542	
R30, V30						
1987-88	L6	4.8	292	2 Groove Pulley	DA-292	
1987-88	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1987-88	V8	6.2	379		DA-3790	
1987-88	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1987-88	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
R3500, V3500						
1989-91	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1989-91	V8	6.2	379		DA-3790	
1989	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1989-90	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
S10						
1982-87	V6	2.8	173	Stamped 9033	DA-1733	
1984-86	V6	2.8	173	Stamped 4955	DA-1890	
1988-93	V6	2.8	173		DA-1890	
1988-92	V6	4.3	262		DA-2621	
1993-95	V6	4.3	262	Without Balance Shaft	DA-2622	
1994	V6	4.3	262		DA-2621	
1995-04	V6	4.3	262	Solid	DA-1736	
S10 BLAZER						
1983-87	V6	2.8	173	Stamped 9033	DA-1733	
1984-86	V6	2.8	173	Stamped 4955	DA-1890	
1988-89	V6	2.8	173		DA-1890	
1988-94	V6	4.3	262		DA-2621	
1993-94	V6	4.3	262	Without Balance Shaft	DA-2622	
SILVERADO 1500						
1999-07	V6	4.3	262		DA-1736	
1999-09	V8	4.8	294		DA-3510	
1999-05	V8	5.3	323		DA-3510	
2006-09	V8	5.3	325		DA-3510	
2001-09	V8	6.0	364		DA-3510	
SILVERADO 2500						
1999-09	V8	5.3	323		DA-3510	
1999-04	V8	6.0	364		DA-3510	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
CHEVROLET TRUCK (con't)						
SILVERADO 3500						
2001-09	V8	6.0	364		DA-3510	
SSR						
2003-04	V8	5.3	325		DA-3510	
2005-06	V8	6.0	364		DA-3510	
SUBURBAN						
1966-67	L6	4.1	250	Single V Groove Pulley	DA-2500	
1966-67	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1962	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1966-67	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1966	V8	6.0	366		DA-366	
SUBURBAN 1500						
2000-05	V8	5.3	323		DA-3510	
2006-09	V8	5.3	325		DA-3510	
2008-09	V8	6.0	364		DA-3510	
SUBURBAN 2500						
2000-09	V8	6.0	364		DA-3510	
TAHOE						
2000-09	V8	4.8	294		DA-3510	
2000-05	V8	5.3	323		DA-3510	
2006-09	V8	5.3	325		DA-3510	
1995	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1996-00	V8	5.7	350		DA-3506	
2008-09	V8	6.0	364		DA-3510	
1995-98	V8	6.5	395	Solid	DA-3950	
1995-98	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
TRAILBLAZER						
2005	V8	5.3	323		DA-3510	
2003-04	V8	5.3	325		DA-3510	
2006-08	V8	5.3	325		DA-3510	
2006-09	V8	6.0	364		DA-3510	
VENTURE						
1997-05	V6	3.4	207		DA-1893	
CHRYSLER						
300						
1966-71	V8	7.2	440	Steel Crank	DA-440	
300M						
1999-04	V6	3.5	215		DA-322	
CIRRUS						
1995-00	V6	2.5	152		DA-319	
CONCORDE						
1998-01	V6	3.2	197		DA-322	
1993-96	V6	3.3	201		DA-323	
1993-97	V6	3.5	215		DA-322	
2002-04	V6	3.5	215		DA-322	
CORDOBA						
1980-83	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1975-83	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979	V8	5.9	360		DA-3602	
DAYTONA, DYNASTY						
1989-93	V6	3.0	181		DA-1300	
FIFTH AVENUE						
1983	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1983-89	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
CHRYSLER (con't)						
IMPERIAL						
1990-91	V6	3.3	201		DA-203	
1991-93	V6	3.8	230		DA-203	
1981-83	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1966-71	V8	7.2	440	Steel Crank	DA-440	
LEBARON						
1978-81	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1990-91	V6	3.0	181		DA-1300	
1992	V6	3.0	181	Sedan	DA-1300	
1993-95	V6	3.0	181		DA-1300	
1977-81	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979	V8	5.9	360		DA-3602	
LHS						
1994-97	V6	3.5	215		DA-322	
1999-01	V6	3.5	215		DA-322	
NEW YORKER						
1982	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1988-89	V6	3.0	181		DA-1300	
1990-93	V6	3.3	201		DA-203	
1994-96	V6	3.5	215		DA-322	
1991-93	V6	3.8	230		DA-203	
1979-82	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979-80	V8	5.9	360		DA-3602	
1966-71	V8	7.2	440	Steel Crank	DA-440	
NEWPORT						
1979-81	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1979-81	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979-80	V8	5.9	360		DA-3602	
1966-71	V8	7.2	440	Steel Crank	DA-440	
PROWLER						
2002	V6	3.5	215		DA-322	
SEBRING						
1996-00	V6	2.5	152		DA-319	
2001-05	V6	3.0	181		DA-303	
CHRYSLER TRUCK						
GRAND VOYAGER, VOYAGER						
2000	V6	3.0	181		DA-1300	
2000-03	V6	3.3	201		DA-203	
PT CRUISER						
2001-03	L4	2.4	148		DA-202	
TOWN & COUNTRY						
1978-81	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1990-06	V6	3.3	201		DA-203	
1994-06	V6	3.8	230		DA-203	
1978-81	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979	V8	5.9	360		DA-3602	
1968-71	V8	7.2	440	Steel Crank	DA-440	
DODGE						
A100						
1964-70	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
ASPEN						
1976-80	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1976-80	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979-80	V8	5.9	360		DA-3602	
AVENGER						
1995-99	V6	2.5	152		DA-319	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
DODGE (con't)						
CHALLENGER						
1970-72	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1972-74	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1972	V8	5.6	340	For Permance Race (SFI) Balancer Order 872037	DA-318	
1970-71	V8	7.2	440	Steel Crank	DA-440	
CHARGER, CORONET						
1968-76	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1972-78	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1972	V8	5.6	340	For Permance Race (SFI) Balancer Order 872037	DA-318	
1967-71	V8	7.2	440	Steel Crank	DA-440	
COLT						
1987-90	L4	1.5	90		DA-150	
1991-94	L4	1.5	90	w/Serpentine Belt	DA-152	
DART						
1960-76	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1972-76	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1972	V8	5.6	340	For Permance Race (SFI) Balancer Order 872037	DA-318	
DIPLOMAT						
1978-83	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1977-89	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979	V8	5.9	360		DA-3602	
DYNASTY						
1990-93	V6	3.3	201		DA-203	
INTREPID						
1998-01	V6	3.2	197		DA-322	
1993-97	V6	3.3	201		DA-323	
1993-97	V6	3.5	215		DA-322	
2000-04	V6	3.5	215		DA-322	
LANCER						
1961-62	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
MAGNUM						
1978-79	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979	V8	5.9	360		DA-3602	
2006-08	V8	6.1	370		DA-321	
MIRADA						
1980-83	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1980-83	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1980	V8	5.9	360		DA-3602	
MONACO, ROYAL MONACO						
1977-78	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1975-78	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1966-71	V8	7.2	440	Steel Crank	DA-440	
NEON						
1995	L4	2.0	122	SOHC	DA-223	
1996-99	L4	2.0	122		DA-223	
2000-03	L4	2.0	122		DA-202	
2003	L4	2.4	148		DA-202	
P100, P200, P300						
1968-72	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
POLARA						
1963-64	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1970-71	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1972-73	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1966-71	V8	7.2	440	Steel Crank	DA-440	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
DODGE (con't)						
RAIDER						
1989	V6	3.0	181		DA-300	
SHADOW						
1992-94	V6	3.0	181		DA-1300	
SPIRIT						
1989-95	V6	3.0	181		DA-1300	
ST. REGIS						
1979-81	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1979-81	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979-80	V8	5.9	360		DA-3602	
STEALTH						
1991-96	V6	3.0	181	SOHC	DA-35	
STRATUS						
1995	L4	2.0	122		DA-223	
1995-00	V6	2.5	152		DA-319	
2001-05	V6	3.0	181		DA-303	
DODGE TRUCK						
B100, B200, B300						
1971-80	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1972-80	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979-80	V8	5.9	360	w/AT	DA-3602	
B150, B250, B350						
1981-87	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1988-91	V6	3.9	239	For Permance Race (SFI) Balancer Order 872037	DA-318	
1981-93	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1981-93	V8	5.9	360	w/AT	DA-3602	
B1500, B2500, B3500						
1995-98	V8	5.9	360		DA-3603	
CARAVAN, GRAND CARAVAN						
1987-00	V6	3.0	181		DA-1300	
1990-06	V6	3.3	201	w/7.618" Pulley Diameter; OE #4448886	DA-203	
1996-99	V6	3.8	230		DA-203	
CB300						
1974-75	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1977-79	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1974-79	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979-80	V8	5.9	360	w/AT	DA-3602	
D100						
1968-79	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1986-87	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1988-89	V6	3.9	239	For Permance Race (SFI) Balancer Order 872037	DA-318	
1972-79	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1986-89	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979	V8	5.9	360	w/AT	DA-3602	
1986-88	V8	5.9	360	w/AT	DA-3602	
D100 SERIES, D200 SERIES, D300 SERIES						
1960-67	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
D150, D250						
1977-87	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1988-91	V6	3.9	239	For Permance Race (SFI) Balancer Order 872037	DA-318	
1977-93	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979-82	V8	5.9	360	w/AT	DA-3602	
1984-93	V8	5.9	360	w/AT	DA-3602	
1993	V8	5.9	360	w/AT	DA-3602	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
DODGE TRUCK (con't)						
D200, D300						
1968-80	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1972-80	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979-80	V8	5.9	360	w/AT	DA-3602	
D350						
1981-83	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1981-93	V8	5.9	360	w/AT	DA-3602	
D400, D450						
1979-81	V8	5.9	360	w/AT	DA-3602	
DAKOTA						
2004-09	V6	3.7	226		DA-321	
1987-91	V6	3.9	239	For Permance Race (SFI) Balancer Order 872037	DA-318	
2002-09	V8	4.7	285		DA-321	
2000-01	V8	4.7	287		DA-321	
1989-93	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1998-03	V8	5.9	360		DA-3603	
DURANGO						
2004-09	V6	3.7	226		DA-321	
2002-09	V8	4.7	285		DA-321	
2000-01	V8	4.7	287		DA-321	
1998-03	V8	5.9	360		DA-3603	
MINI RAM, ROYAL MINI RAM						
1987-88	V6	3.0	181		DA-1300	
NITRO						
2007-09	V6	3.7	226		DA-321	
RAM 1500						
2002-09	V6	3.7	226		DA-321	
2002-09	V8	4.7	287		DA-321	
1994-03	V8	5.9	360		DA-3603	
RAM 1500 VAN, RAM 2500 VAN, RAM 3500 VAN						
1999-03	V8	5.9	360		DA-3603	
RAM 2500, RAM 3500						
1994-02	V8	5.9	360		DA-3603	
RAM 50						
1990-91	V6	3.0	181		DA-300	
RAMCHARGER						
1974-80	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1974-93	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979-81	V8	5.9	360	w/AT	DA-3602	
1984-93	V8	5.9	360	w/AT	DA-3602	
W100						
1968-77	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1986-87	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1989	V6	3.9	239	For Permance Race (SFI) Balancer Order 872037	DA-318	
1972-77	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1986-89	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1986-88	V8	5.9	360	w/AT	DA-3602	
W100 SERIES, W200 SERIES, W300 SERIES						
1960-67	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
W150						
1978-87	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1989-91	V6	3.9	239	For Permance Race (SFI) Balancer Order 872037	DA-318	
1977-93	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979-81	V8	5.9	360	w/AT	DA-3602	
1984-91	V8	5.9	360	w/AT	DA-3602	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
DODGE TRUCK (con't)						
W150 (con't)						
1993	V8	5.9	360	w/AT	DA-3602	
W200, W300						
1969-80	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1972-80	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979-80	V8	5.9	360	w/AT	DA-3602	
W250, W350						
1981-93	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1981-93	V8	5.9	360	w/AT	DA-3602	
EAGLE						
PREMIER						
1989	V6	3.0	2972	SOHC	DA-1824	
SUMMIT						
1991-96	L4	1.5	1468	w/Serpentine Belt	DA-152	
1992	L4	2.4	2351		DA-161	
1993	L4	2.4	2351		DA-261	
TALON						
1993-94	L4	1.8	1755		DA-324	
1990-94	L4	2.0	1997		DA-261	
1995-97	L4	2.0	1997		DA-160	
VISION						
1993-97	V6	3.3	201		DA-323	
1993-97	V6	3.5	3497		DA-322	
FORD						
CLUB						
1963	L6	3.3	200	Double Groove	DA-201	
1963-64	V8	4.7	289	w/6.50" Diameter	DA-289	
CLUB WAGON						
1962-67	L6	2.8	170	Single Groove	DA-200	
CONTOUR						
1995-00	V6	2.5	155		DA-1822	
COUNTRY SEDAN, COUNTRY SQUIRE, CUSTOM						
1962-67	L6	2.8	170	Single Groove	DA-200	
1963-67	L6	3.3	200	Double Groove	DA-201	
1963-67	V8	4.7	289	w/6.50" Diameter	DA-289	
1968-69	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1968-69	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1970-72	V8	5.0	302	exc. Hi-Performance	DA-3022	
1987-91	V8	5.0	302		DA-3021	DA-3021-HD
1969-74	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1970-71	V8	5.8	351	Cleveland Engine	DA-3514	
1971-74	V8	6.6	400		DA-3512	DA-3512-HD
CROWN VICTORIA						
1992-00	V8	4.6	281	From 6/22/92	DA-2801	
CUSTOM 500						
1968	V8	4.7	289	w/6.50" Diameter	DA-289	
1968-69	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1968-69	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1970-72	V8	5.0	302	exc. Hi-Performance	DA-3022	
1969-70	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1970	V8	5.8	351	Cleveland Engine	DA-3514	
1972-74	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1975-76	V8	5.8	351	Modified Engine w/o AC	DA-3512	DA-3512-HD
1977	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1971-74	V8	6.6	400		DA-3512	DA-3512-HD
1977	V8	6.6	400		DA-3512	DA-3512-HD

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
FORD (con't)						
ESCORT						
1991-96	L4	1.9	116		DA-1160	
1997-01	L4	2.0	122	SOHC	DA-1160	
2002	L4	2.0	122	SOHC	DA-1827	
FAIRLANE						
1963-66	L6	2.8	170	Single Groove	DA-200	
1965-68	L6	3.3	200	Double Groove	DA-201	
1964-68	V8	4.7	289	w/6.50" Diameter	DA-289	
1968-69	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1968-69	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1969-70	V8	5.0	302	3.39" Overall Width	DA-3512	DA-3512-HD
1970	V8	5.0	302	exc. Hi-Performance; 4.11" Overall Width	DA-3022	
1969-70	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1969-70	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1970	V8	5.8	351	Cleveland Engine	DA-3514	
FAIRMONT						
1978-83	L6	3.3	200	Double Groove	DA-201	
FALCON						
1960-69	L6	2.8	170	Single Groove	DA-200	
1963-70	L6	3.3	200	Double Groove	DA-201	
1964-68	V8	4.7	289	w/6.50" Diameter	DA-289	
1968-69	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1968-69	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1970	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
FOCUS						
2000-01	L4	2.0	121	SOHC	DA-1160	
2002-04	L4	2.0	121	SOHC	DA-1827	
2000-01	L4	2.0	122	SOHC	DA-1160	
2002-04	L4	2.0	122	SOHC	DA-1827	
FORD 300, GALAXIE, SUNLINER, VICTORIA						
1963	L6	3.3	200	Double Groove	DA-201	
1963-67	V8	4.7	289	w/6.50" Diameter	DA-289	
GALAXIE 500						
1968-69	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1968-69	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1970-71	V8	5.0	302	exc. Hi-Performance; 4.11" Overall Width	DA-3022	
1971-72	V8	5.0	302	3.39" Overall Width	DA-3512	DA-3512-HD
1972	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1969-74	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1970-71	V8	5.8	351	Cleveland Engine	DA-3514	
1971-74	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1971-74	V8	6.6	400		DA-3512	DA-3512-HD
GRAN TORINO						
1972-74	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1972-74	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1972-74	V8	5.8	351	Cleveland Engine	DA-3515	
1975-76	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1972-74	V8	6.6	400		DA-3512	DA-3512-HD
GRANADA						
1975-77	L6	3.3	200	Double Groove; 1.248" Overall Width	DA-201	
1975-77	L6	3.3	200	3.39" Overall Width	DA-3512	DA-3512-HD
1981-82	L6	3.3	200	Double Groove	DA-201	
1982	V6	3.8	232	3-3/4 Hub Height	DA-2326	
1975-77	V8	5.0	302	3.39" Overall Width	DA-3512	DA-3512-HD
1975-79	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1980	V8	5.0	302	w/o EEC	DA-3022	
1975-77	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
FORD (con't)						
LTD						
1983	L6	3.3	200	Double Groove	DA-201	
1983-86	V6	3.8	232	3-3/4 Hub Height	DA-2326	
1967-68	V8	4.7	289	w/6.50" Diameter	DA-289	
1968-69	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1968-69	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1970-71	V8	5.0	302	exc. Hi-Performance; 4.11" Overall Width	DA-3022	
1971-72	V8	5.0	302	3.39" Overall Width	DA-3512	DA-3512-HD
1972	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1977-79	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1977-79	V8	5.0	302		DA-3512	DA-3512-HD
1980	V8	5.0	302	w/o EEC	DA-3022	
1984-86	V8	5.0	302		DA-3021	DA-3021-HD
1969-74	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1970-71	V8	5.8	351	Cleveland Engine	DA-3514	
1971-74	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1975-76	V8	5.8	351	Modified Engine w/o AC	DA-3512	DA-3512-HD
1977-79	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1982-86	V8	5.8	351	w/6.40" Diameter; OE # E8TZ-6316-B	DA-3513	
1971-74	V8	6.6	400		DA-3512	DA-3512-HD
1977-78	V8	6.6	400		DA-3512	DA-3512-HD
LTD CROWN VICTORIA						
1987-91	V8	5.0	302		DA-3021	DA-3021-HD
LTD II						
1977-79	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1977-79	V8	5.0	302	3.39" Overall Width	DA-3512	DA-3512-HD
1977-79	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1977-78	V8	6.6	400		DA-3512	DA-3512-HD
MAVERICK						
1970-72	L6	2.8	170	Single Groove	DA-200	
1970-77	L6	3.3	200	Double Groove	DA-201	
1971-77	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
MUSTANG						
1964-65	L6	2.8	170	Single Groove	DA-200	
1964-70	L6	3.3	200	Double Groove	DA-201	
1970	L6	3.3	200	3.39" Overall Width	DA-3512	DA-3512-HD
1979-82	L6	3.3	200	Double Groove	DA-201	
1983-86	V6	3.8	232	3-3/4 Hub Height	DA-2326	
1994-95	V6	3.8	232		DA-2332	
1996-00	V8	4.6	281	6 Groove Serpentine Belt	DA-2801	
1996-02	V8	4.6	281	Serpentine Belt - 6 Groove	DA-2802	
2003-04	V8	4.6	281	MT	DA-2802	
1964-68	V8	4.7	289	w/6.50" Diameter	DA-289	
1968-69	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1968-69	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1969-71	V8	5.0	302	3.39" Overall Width	DA-3512	DA-3512-HD
1970-71	V8	5.0	302	exc. Hi-Performance; 4.11" Overall Width	DA-3022	
1972-73	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1984-95	V8	5.0	302		DA-3021	DA-3021-HD
1969-71	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1969-73	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1970-71	V8	5.8	351	Cleveland Engine	DA-3514	
1972-73	V8	5.8	351	Cleveland Engine	DA-3515	
P-100						
1965-67	L6	2.8	170	Single Groove	DA-200	
P-350						
1976	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
FORD (con't)						
P-350 (con't)						
1973	V8	5.9	360	w/7.01" Diameter; OE # D5TZ-6316-D	DA-390	
1973	V8	6.4	390	w/7.01" Diameter; OE # D5TZ-6316-D	DA-390	
PROBE						
1993-95	L4	2.0	122		DA-185	
1993-97	V6	2.5	152		DA-180	
1990-92	V6	3.0	182		DA-1829	
RANCH WAGON						
1962	L6	2.8	170	Single Groove	DA-200	
1964	L6	2.8	170	Single Groove	DA-200	
1966-67	L6	2.8	170	Single Groove	DA-200	
1963	L6	3.3	200	Double Groove	DA-201	
1966-67	L6	3.3	200	Double Groove	DA-201	
1963-68	V8	4.7	289	w/6.50" Diameter	DA-289	
1968-69	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1968-69	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1970-71	V8	5.0	302	exc. Hi-Performance; 4.11" Overall Width	DA-3022	
1971	V8	5.0	302	3.39" Overall Width	DA-3512	DA-3512-HD
1972	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1969-74	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1970-71	V8	5.8	351	Cleveland Engine	DA-3514	
1971	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1973	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1971-74	V8	6.6	400		DA-3512	DA-3512-HD
RANCHERO						
1961	L6	2.8	170	Single Groove	DA-200	
1964-65	L6	2.8	170	Single Groove	DA-200	
1964-68	L6	3.3	200	Double Groove	DA-201	
1965-67	V8	4.7	289	w/6.50" Diameter	DA-289	
1968-69	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1968-69	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1969-74	V8	5.0	302	3.39" Overall Width	DA-3512	DA-3512-HD
1970-71	V8	5.0	302	exc. Hi-Performance; 4.11" Overall Width	DA-3022	
1972-74	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1977-79	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1977-79	V8	5.0	302	3.39" Overall Width	DA-3512	DA-3512-HD
1969-74	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1969-79	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1970-71	V8	5.8	351	Cleveland Engine	DA-3514	
1972-74	V8	5.8	351	Cleveland Engine	DA-3515	
1972-74	V8	6.6	400		DA-3512	DA-3512-HD
SPRINT						
1963	L6	2.8	170	Single Groove	DA-200	
TAURUS						
1986-89	V6	3.0	182	OHV	DA-1824	
1990-94	V6	3.0	182		DA-1821	
1995	V6	3.0	182		DA-1820	
1996-06	V6	3.0	182	DOHC; 24 Valve	DA-1823	
1996-97	V6	3.0	182	SOHC; 12 Valve	DA-1820	
1998-06	V6	3.0	182	12 Valve	DA-1820	
1993-95	V6	3.2	195		DA-1950	
1990-95	V6	3.8	232	Solid w/o Sensor Ring	DA-2320	
1990-95	V6	3.8	232	Solid w/Sensor Ring	DA-2332	
1996-99	V8	3.4	207		DA-2070	
TEMPO						
1992-94	L4	2.3	140		DA-1401	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
FORD (con't)						
THUNDERBIRD						
1980-82	L6	3.3	200	Double Groove	DA-201	
1982-87	V6	3.8	232	3-3/4 Hub Height	DA-2326	
1994-95	V6	3.8	232	California	DA-2332	
1996-97	V6	3.8	232		DA-2332	
1994-97	V8	4.6	281		DA-2801	
1977-79	V8	5.0	302	w/o EEC; To 12/2/79	DA-3022	
1977-79	V8	5.0	302	3.39" Overall Width	DA-3512	DA-3512-HD
1984-88	V8	5.0	302	California; From 2/1/84	DA-3021	DA-3021-HD
1991-93	V8	5.0	302		DA-3021	DA-3021-HD
1977-79	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1972	V8	6.6	400		DA-3512	DA-3512-HD
1977-78	V8	6.6	400		DA-3512	DA-3512-HD
TORINO						
1968	L6	3.3	200	Double Groove	DA-201	
1968	V8	4.7	289	w/6.50" Diameter	DA-289	
1968-69	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1968-69	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1970-71	V8	5.0	302	exc. Hi-Performance; 4.11" Overall Width	DA-3022	
1971-74	V8	5.0	302	3.39" Overall Width	DA-3512	DA-3512-HD
1972-74	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1969-74	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1969-76	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1970-71	V8	5.8	351	Cleveland Engine	DA-3514	
1972-74	V8	5.8	351	Cleveland Engine	DA-3515	
1972-74	V8	6.6	400		DA-3512	DA-3512-HD
FORD TRUCK						
AEROSTAR						
1986-89	V6	3.0	182	SOHC	DA-1824	
1990-94	V6	3.0	182		DA-1821	
1995-97	V6	3.0	182		DA-1820	
1990-97	V6	4.0	245		DA-244	
BRONCO						
1967-72	L6	2.8	170	Single Groove	DA-200	
1973-74	L6	3.3	200	Double Groove	DA-201	
1980-89	L6	4.9	300	Triple Groove Pulley with Small Diameter Front Pulley	DA-3002	
1980-89	L6	4.9	300	Triple Groove Pulley	DA-3003	
1987-92	L6	4.9	300	w/Serpentine Belt	DA-3000	
1987-92	L6	4.9	300	Single Serpentine Pulley	DA-3006	
1966-68	V8	4.7	289	w/6.50" Diameter	DA-289	
1968-69	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1968-69	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1980	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1981	V8	5.0	302	exc. California; 4.11" Overall Width	DA-3023	
1984-95	V8	5.0	302		DA-3021	DA-3021-HD
1978-81	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1985-96	V8	5.8	351	w/6.40" Diameter; OE # E8TZ-6316-B	DA-3513	
1978-79	V8	6.6	400		DA-3512	DA-3512-HD
BRONCO II						
1990	V6	2.9	177		DA-1831	
E SUPER DUTY						
2000	V10	6.8	415		DA-1828	
1997-00	V8	5.4	330	w/8 Grooves; OE #F75Z-6312-AC	DA-3300	
2001-02	V8	5.4	330	2.121" Overall Width	DA-3302	
1996	V8	5.8	351	w/6.40" Diameter; OE # E8TZ-6316-B	DA-3513	
1996-02	V8	7.3	445		DA-4452	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
FORD TRUCK (con't)						
E-100 ECONOLINE, E-200 ECONOLINE, E-300 ECONOLINE						
1968-71	L6	2.8	170	Single Groove	DA-200	
1980-83	L6	4.9	300	Triple Groove Pulley with Small Diameter Front Pulley	DA-3002	
1980-83	L6	4.9	300	Triple Groove Pulley	DA-3003	
1968-69	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1968-69	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1979-80	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1981	V8	5.0	302	exc. California; 4.11" Overall Width	DA-3023	
1977-81	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
E-150 ECONOLINE, E-250 ECONOLINE, E-350 ECONOLINE						
1980-89	L6	4.9	300	Triple Groove Pulley with Small Diameter Front Pulley	DA-3002	
1980-89	L6	4.9	300	Triple Groove Pulley	DA-3003	
1987-96	L6	4.9	300	w/Serpentine Belt, 5 Poly Vees; OE# E7TZ6312A	DA-3000	
1987-96	L6	4.9	300	Single Serpentine Pulley; OE# F6UZ6316A	DA-3006	
2000	V10	6.8	415		DA-1828	
1997-07	V8	4.6	281		DA-1826	
1975	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1979-80	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1981	V8	5.0	302	exc. California; 4.11" Overall Width	DA-3023	
1984-95	V8	5.0	302		DA-3021	DA-3021-HD
1997-00	V8	5.4	330	w/8 Grooves; OE #F75Z-6312-AC	DA-3300	
2001-05	V8	5.4	330	2.121" Overall Width	DA-3302	
1977-81	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1985-96	V8	5.8	351	w/6.40" Diameter; OE # E8TZ-6316-B	DA-3513	
1988-94	V8	7.3	445		DA-4451	
1995-03	V8	7.3	445	8 Ribs	DA-4452	
1980-95	V8	7.5	460	For Performance Race (SFI) Harmonic Balancer Order 872036	DA-4601	
1996	V8	7.5	460	w/6.65" Diameter	DA-4602	
E-450 ECONOLINE						
2003-04	V8	5.4	330	2.121" Overall Width	DA-3302	
2003	V8	7.3	445		DA-4452	
ECONOLINE						
1962-67	L6	2.8	170	Single Groove	DA-200	
ESCAPE						
2001-05	V6	3.0	182		DA-1822	
2006-08	V6	3.0	183		DA-1822	
EXCURSION						
2000	V10	6.8	415		DA-1828	
2000	V8	5.4	330	w/8 Grooves; OE #F75Z-6312-AC	DA-3300	
2001-05	V8	5.4	330	2.121" Overall Width	DA-3302	
2000-03	V8	7.3	445		DA-4452	
EXPEDITION						
1997-02	V8	4.6	281		DA-1826	
1997-00	V8	5.4	330	w/8 Grooves; OE #F75Z-6312-AC	DA-3300	
2001-04	V8	5.4	330	2.121" Overall Width	DA-3302	
2005-06	V8	5.4	330		DA-3301	
EXPLORER						
1991-06	V6	4.0	245		DA-244	
1996-01	V8	5.0	302	w/6.40" Pulley Diameter; OE # F67Z-6312-AA	DA-3024	
F SUPER DUTY						
1990-94	V8	7.3	445		DA-4451	
1995-97	V8	7.3	445	8 Ribs	DA-4452	
1990-95	V8	7.5	460	For Performance Race (SFI) Harmonic Balancer Order 872036	DA-4601	
F-100 PICKUP						
1977-83	L6	4.9	300	Triple Groove Pulley with Small Diameter Front Pulley	DA-3002	
1977-83	L6	4.9	300	Triple Groove Pulley	DA-3003	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
FORD TRUCK (con't)						
F-100 PICKUP (con't)						
1978-79	L6	4.9	300		DA-3512	DA-3512-HD
1982-83	V6	3.8	232	3-3/4 Hub Height	DA-2326	
1969	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1969	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1969-80	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1978-79	V8	5.0	302	3.39" Overall Width	DA-3512	DA-3512-HD
1981	V8	5.0	302	exc. California; 4.11" Overall Width	DA-3023	
1981	V8	5.0	302	3.39" Overall Width	DA-3512	DA-3512-HD
1977-79	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1981	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1973-76	V8	5.9	360	w/7.01" Diameter; OE # D5TZ-6316-D	DA-390	
1973-77	V8	6.4	390	w/7.01" Diameter; OE # D5TZ-6316-D	DA-390	
1977-79	V8	6.6	400		DA-3512	DA-3512-HD
F-150, F-250, F-350						
1977-81	L6	4.9	300		DA-3512	DA-3512-HD
1980-89	L6	4.9	300	Triple Groove Pulley with Small Diameter Front Pulley	DA-3002	
1980-89	L6	4.9	300	Triple Groove Pulley	DA-3003	
1987-96	L6	4.9	300	w/Serpentine Belt, 5 Poly Vees; OE# E7TZ6312A	DA-3000	
1987-96	L6	4.9	300	Single Serpentine Pulley; OE# F6UZ6316A	DA-3006	
1997-06	V8	4.6	281	4WD; Romeo Eng; 8 Groove	DA-1826	
1997-06	V8	4.6	281	RWD; Romeo Eng; 6 Groove Pulley	DA-2801	
1972-80	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1977-81	V8	5.0	302	3.39" Overall Width	DA-3512	DA-3512-HD
1981	V8	5.0	302	exc. California; 4.11" Overall Width	DA-3023	
1984-95	V8	5.0	302		DA-3021	DA-3021-HD
1999-00	V8	5.4	330	w/8 Grooves; OE #F75Z-6312-AC	DA-3300	
2001-04	V8	5.4	330	2.121" Overall Width	DA-3302	
2004-06	V8	5.4	330	2.303" Overall Width	DA-3301	
1977-81	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1985-97	V8	5.8	351	w/6.40" Diameter; OE # E8TZ-6316-B	DA-3513	
1973-76	V8	5.9	360	w/7.01" Diameter; OE # D5TZ-6316-D	DA-390	
1973-77	V8	6.4	390	w/7.01" Diameter; OE # D5TZ-6316-D	DA-390	
1977-79	V8	6.6	400		DA-3512	DA-3512-HD
1988-94	V8	7.3	445		DA-4451	
1995-97	V8	7.3	445	8 Ribs	DA-4452	
1983-95	V8	7.5	460	For Performance Race (SFI) Harmonic Balancer Order 872036	DA-4601	
1996-97	V8	7.5	460	w/6.65" Diameter	DA-4602	
F-250 SUPER DUTY, F-350 SUPER DUTY						
2000	V10	6.8	415		DA-1828	
1999-00	V8	5.4	330	w/8 Grooves; OE #F75Z-6312-AC	DA-3300	
2001-04	V8	5.4	330	2.121" Overall Width	DA-3302	
2005	V8	5.4	330	2.303" Overall Width	DA-3301	
1999-03	V8	7.3	445		DA-4452	
F-450 SUPER DUTY, F-550 SUPER DUTY						
2000	V10	6.8	415		DA-1828	
1999-03	V8	7.3	445		DA-4452	
F-500						
1975-77	V8	5.4	330	w/7.01" Diameter; OE # D5TZ-6316-D	DA-330	
1975-76	V8	5.9	360	w/7.01" Diameter; OE # D5TZ-6316-D	DA-390	
1975-76	V8	6.4	390	w/7.01" Diameter; OE # D5TZ-6316-D	DA-390	
RANGER						
1990-92	V6	2.9	177		DA-1831	
1991-94	V6	3.0	182		DA-1821	
1995-06	V6	3.0	182		DA-1820	
1990-00	V6	4.0	245		DA-244	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
FORD TRUCK (con't)						
WINDSTAR						
1995-00	V6	3.0	182		DA-1820	
1995	V6	3.8	232		DA-2332	
1996-99	V6	3.8	232		DA-1830	
GMC						
C15 PICKUP, C25 PICKUP, C35 PICKUP						
1966-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1966-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1975-76	L6	4.1	250		DA-2502	
1977-84	L6	4.1	250		DA-2503	
1973-86	L6	4.8	292	Double Groove Pulley	DA-292	
1973-87	L6	4.8	292	Triple Groove Pulley	DA-293	
1985-86	V6	4.3	262		DA-2313	
1969-73	V8	5.0	307	6" Diameter	DA-3270	DA-3270-HD
1976	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1977-84	V8	5.0	305	7.99" Ring Diameter	DA-3504	
1977-86	V8	5.0	305	6.74" Ring Diameter	DA-3051	
1967-68	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1969-70	V8	5.7	350	2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	4-Bbl Carb	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1973-76	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1974	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1977-86	V8	5.7	350	7.99" Ring Diameter	DA-3504	
1980	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1982	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1982-86	V8	6.2	379		DA-3790	
1968-69	V8	6.5	396		DA-396	
1976-79	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1970-72	V8	6.6	402	4-Bbl Carb	DA-396	
1970-72	V8	6.6	402	2-Bbl Carb	DA-400	DA-400-HD
1973-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1973-86	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1986	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
C15 SUBURBAN, C25 SUBURBAN						
1968-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1968-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1975-76	L6	4.1	250		DA-2502	
1977-80	L6	4.1	250		DA-2503	
1973-86	L6	4.8	292	Double Groove Pulley	DA-292	
1973-87	L6	4.8	292	Triple Groove Pulley	DA-293	
1976	V8	5.0	305		DA-3071	DA-3071-HD
1977-84	V8	5.0	305		DA-3504	
1985-86	V8	5.0	305		DA-3051	
1969-73	V8	5.0	307	6" Diameter	DA-3270	DA-3270-HD
1968	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1969-70	V8	5.7	350	2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	4-Bbl Carb	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1973-76	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1974	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1977-86	V8	5.7	350	7.99" Ring Diameter	DA-3504	
1980	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1982	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1982-86	V8	6.2	379		DA-3790	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
GMC (con't)						
C15 SUBURBAN, C25 SUBURBAN (con't)						
1968-69	V8	6.5	396		DA-396	
1978	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1980	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1970-72	V8	6.6	402	4-Bbl Carb	DA-396	
1970-72	V8	6.6	402	2-Bbl Carb	DA-400	DA-400-HD
1973-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1973-86	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1986	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
C1500 PICKUP, C2500 PICKUP						
1988-92	V6	4.3	262		DA-2621	
1993	V6	4.3	262	Solid w/Balance Shaft	DA-2621	
1993-95	V6	4.3	262	Without Balance Shaft	DA-2622	
1996-98	V6	4.3	262		DA-1736	
1988-95	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1988-95	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1996-00	V8	5.7	350		DA-3506	
1988-93	V8	6.2	379	Solid w/V-Belt Pulley	DA-3790	
1988-93	V8	6.2	379	Serpentine Belt Pulley	DA-3955	
1992-00	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1992-93	V8	6.5	395	Solid w/V-Belt Pulley	DA-3790	
1994-00	V8	6.5	395	Solid	DA-3950	
1991-93	V8	7.4	454		DA-4542	
C1500 SUBURBAN, C2500 SUBURBAN						
1992-95	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1996-99	V8	5.7	350		DA-3506	
1994-99	V8	6.5	395	Solid	DA-3950	
1994-99	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1992-93	V8	7.4	454		DA-4542	
C3500 PICKUP						
1988-95	V8	5.7	350		DA-3502	DA-3502-HD
1996-00	V8	5.7	350		DA-3506	
1988-93	V8	6.2	379	Solid w/V-Belt Pulley	DA-3790	
1988-93	V8	6.2	379	Serpentine Belt Pulley	DA-3955	
1992-02	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1992-93	V8	6.5	395	Solid w/V-Belt Pulley	DA-3790	
1994-02	V8	6.5	395	Solid	DA-3950	
1988	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1988-90	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1991-93	V8	7.4	454		DA-4542	
CABALLERO						
1978-79	V6	3.3	200		DA-2313	
1980-84	V6	3.8	229		DA-2313	
1985-86	V6	4.3	262		DA-2313	
1978-87	V8	5.0	305		DA-3051	
1978-79	V8	5.7	350		DA-3051	
ENVOY						
2003-05	V8	5.3	323		DA-3510	
2006-09	V8	5.3	325		DA-3510	
G15/G1500 VAN, G25/G2500 VAN, G35/G3500 VAN						
1967-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1967-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1975-76	L6	4.1	250		DA-2502	
1977-84	L6	4.1	250		DA-2503	
1974-78	L6	4.8	292	Double Groove Pulley	DA-292	
1974-79	L6	4.8	292	Triple Groove Pulley	DA-293	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
GMC (con't)						
G15/G1500 VAN, G25/G2500 VAN, G35/G3500 VAN (con't)						
1985-92	V6	4.3	262		DA-2621	
1993-94	V6	4.3	262	Solid w/Balance Shaft	DA-2621	
1993-94	V6	4.3	262	Without Balance Shaft	DA-2622	
1995	V6	4.3	262	Under 8500 Lb GVW	DA-2621	
1996	V6	4.3	262	Solid	DA-1736	
1977-95	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1969-73	V8	5.0	307	6" Diameter	DA-3270	DA-3270-HD
1967	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1970	V8	5.7	350	2-Bbl Carb	DA-3071	DA-3071-HD
1970	V8	5.7	350	4-Bbl Carb	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1971-96	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1983-93	V8	6.2	379	Solid w/V-Belt Pulley	DA-3790	
1992-93	V8	6.2	379	Serpentine Belt Pulley	DA-3955	
1994-96	V8	6.5	395	Solid	DA-3950	
1994-96	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1975-80	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1975-76	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1979	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1988-90	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1989	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1991-93	V8	7.4	454		DA-4542	
JIMMY						
1970-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1970-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1975-76	L6	4.1	250		DA-2502	
1977-82	L6	4.1	250		DA-2503	
1973	L6	4.8	292	Double Groove Pulley	DA-292	
1973	L6	4.8	292	Triple Groove Pulley	DA-293	
1995-01	V6	4.3	262		DA-1736	
1977-78	V8	5.0	305		DA-3504	
1979-87	V8	5.0	305		DA-3051	
1970-72	V8	5.0	307		DA-3270	DA-3270-HD
1970	V8	5.7	350	2-Bbl Carb	DA-3071	DA-3071-HD
1970	V8	5.7	350	4-Bbl Carb	DA-3502	DA-3502-HD
1971-76	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1971-72	V8	5.7	350		DA-3071	DA-3071-HD
1973-76	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1977-81	V8	5.7	350		DA-3504	
1982	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1982-86	V8	5.7	350	7.99" Ring Diameter	DA-3504	
1987-91	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1982-91	V8	6.2	379		DA-3790	
1975-79	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1973	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1973	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1976	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
K15 PICKUP, K25 PICKUP, K35 PICKUP						
1966-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1966-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1975-76	L6	4.1	250		DA-2502	
1977-84	L6	4.1	250		DA-2503	
1973-86	L6	4.8	292	Double Groove Pulley	DA-292	
1973-87	L6	4.8	292	Triple Groove Pulley	DA-293	
1985-86	V6	4.3	262		DA-2313	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
GMC (con't)						
K15 PICKUP, K25 PICKUP, K35 PICKUP (con't)						
1976	V8	5.0	305		DA-3071	DA-3071-HD
1977-79	V8	5.0	305		DA-3051	
1981-86	V8	5.0	305		DA-3051	
1969-73	V8	5.0	307	6" Diameter	DA-3270	DA-3270-HD
1967-68	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1969-70	V8	5.7	350	2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	4-Bbl Carb	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1973-76	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1974	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1977-86	V8	5.7	350	7.99" Ring Diameter	DA-3504	
1982-86	V8	6.2	379		DA-3790	
1968-69	V8	6.5	396		DA-396	
1975-80	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1970-71	V8	6.6	402	4-Bbl Carb	DA-396	
1970-71	V8	6.6	402	2-Bbl Carb	DA-400	DA-400-HD
1973-74	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1973-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1976-86	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1986	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
K15 SUBURBAN, K25 SUBURBAN						
1968-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1968-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1975-76	L6	4.1	250		DA-2502	
1977-80	L6	4.1	250		DA-2503	
1973-86	L6	4.8	292	Double Groove Pulley	DA-292	
1973-86	L6	4.8	292	Triple Groove Pulley	DA-293	
1976	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1977-79	V8	5.0	305		DA-3504	
1982-84	V8	5.0	305		DA-3504	
1985	V8	5.0	305		DA-3051	
1969-73	V8	5.0	307	6" Diameter	DA-3270	DA-3270-HD
1968	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
1969-70	V8	5.7	350	2-Bbl Carb	DA-3071	DA-3071-HD
1969-70	V8	5.7	350	4-Bbl Carb	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1973-76	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1977-86	V8	5.7	350	7.99" Ring Diameter	DA-3504	
1982-86	V8	6.2	379		DA-3790	
1968-69	V8	6.5	396		DA-396	
1975-80	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1970-72	V8	6.6	402	4-Bbl Carb	DA-396	
1970-72	V8	6.6	402	2-Bbl Carb	DA-400	DA-400-HD
1977	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
K1500 PICKUP, K2500 PICKUP						
1988-92	V6	4.3	262		DA-2621	
1993	V6	4.3	262	Solid w/Balance Shaft	DA-2621	
1993-95	V6	4.3	262	Without Balance Shaft	DA-2622	
1996-98	V6	4.3	262		DA-1736	
1988-95	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1988-95	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1996-00	V8	5.7	350		DA-3506	
1988-93	V8	6.2	379	Solid w/V-Belt Pulley	DA-3790	
1988-93	V8	6.2	379	Serpentine Belt Pulley	DA-3955	
1992-93	V8	6.5	395	Solid w/V-Belt Pulley	DA-3790	
1994-00	V8	6.5	395	Solid	DA-3950	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
GMC (con't)						
K1500 PICKUP, K2500 PICKUP (con't)						
1992-00	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1991-93	V8	7.4	454		DA-4542	
K1500 SUBURBAN, K2500 SUBURBAN						
1992-95	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1996-99	V8	5.7	350		DA-3506	
1994-99	V8	6.5	395	Solid	DA-3950	
1994-99	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1992-93	V8	7.4	454		DA-4542	
K3500 PICKUP						
1988-95	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1996-00	V8	5.7	350		DA-3506	
1988-93	V8	6.2	379	Solid w/V-Belt Pulley	DA-3790	
1988-93	V8	6.2	379	Serpentine Belt Pulley	DA-3955	
1992-00	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1992-93	V8	6.5	395	Solid w/V-Belt Pulley	DA-3790	
1994-00	V8	6.5	395	Solid	DA-3950	
1988	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1988-90	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1991-93	V8	7.4	454		DA-4542	
P15/P1500 VAN						
1968-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1968-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1975-80	L6	4.8	292	Double Groove Pulley	DA-292	
1975-80	L6	4.8	292	Triple Groove Pulley	DA-293	
1979	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
P25/P2500 VAN						
1966-67	L6	4.1	250	Single V Groove Pulley	DA-2500	
1966-67	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1970	L6	4.1	250	Single V Groove Pulley	DA-2500	
1970	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1972	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1973-89	L6	4.8	292	Double Groove Pulley	DA-292	
1973-87	L6	4.8	292	Triple Groove Pulley	DA-293	
1989	L6	4.8	292	Triple Groove Pulley	DA-293	
1969	V8	5.0	307		DA-3270	DA-3270-HD
1970	V8	5.7	350	2-Bbl Carb	DA-3071	DA-3071-HD
1970	V8	5.7	350	4-Bbl Carb; 8" Diameter	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1973-76	V8	5.7	350		DA-3502	DA-3502-HD
1977	V8	5.7	350	Motorhome; 8" Diameter	DA-3502	DA-3502-HD
1977-82	V8	5.7	350	exc. Motorhome	DA-3504	
1980-82	V8	5.7	350	Motorhome; 8" Diameter	DA-3502	DA-3502-HD
1983-86	V8	5.7	350		DA-3504	
1987-89	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1982-89	V8	6.2	379		DA-3790	
1970-71	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1970-71	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
P35/P3500 VAN						
1966-67	L6	4.1	250	Single V Groove Pulley	DA-2500	
1966-67	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1970-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1970-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1973-74	L6	4.1	250		DA-2501	
1973-89	L6	4.8	292	Double Groove Pulley	DA-292	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
GMC (con't)						
P35/P3500 VAN (con't)						
1973-90	L6	4.8	292	Triple Groove Pulley	DA-293	
1990-92	V6	4.3	262		DA-2621	
1993-94	V6	4.3	262	Solid w/Balance Shaft	DA-2621	
1993-95	V6	4.3	262	Without Balance Shaft	DA-2622	
1996-99	V6	4.3	262		DA-1736	
1969	V8	5.0	307		DA-3270	DA-3270-HD
1970	V8	5.7	350	2-Bbl Carb	DA-3071	DA-3071-HD
1970	V8	5.7	350	4-Bbl Carb; 8" Diameter	DA-3502	DA-3502-HD
1971-72	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1973-76	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1977	V8	5.7	350	Motorhome; 8" Diameter	DA-3502	DA-3502-HD
1977-82	V8	5.7	350	exc. Motorhome	DA-3504	
1980-82	V8	5.7	350	Motorhome; 8" Diameter	DA-3502	DA-3502-HD
1983-86	V8	5.7	350		DA-3504	
1987-95	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1996-99	V8	5.7	350		DA-3506	
1982-93	V8	6.2	379	Solid w/V-Belt Pulley	DA-3790	
1992-93	V8	6.2	379	Serpentine Belt Pulley	DA-3955	
1994-99	V8	6.5	395	Solid	DA-3950	
1994-99	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
1970-71	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1970-71	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1973-90	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1973-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1986-89	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1991-93	V8	7.4	454		DA-4542	
PB15, PB25 SERIES						
1966	L6	4.1	250	Single V Groove Pulley	DA-2500	
R1500 SUBURBAN						
1987	V8	5.0	305		DA-3051	
1987-91	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1987-91	V8	6.2	379		DA-3790	
R1500, R2500						
1987-88	L6	4.8	292	Double Groove Pulley	DA-292	
1987-88	L6	4.8	292	Triple Groove Pulley	DA-293	
1987	V6	4.3	262		DA-2313	
1987	V8	5.0	305		DA-3051	
1987-89	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1987-89	V8	6.2	379		DA-3790	
1987-89	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1987-89	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
R2500 SUBURBAN						
1987-91	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1987-91	V8	6.2	379		DA-3790	
1987-89	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1987-90	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
1991	V8	7.4	454		DA-4542	
R3500, V3500						
1987-88	L6	4.8	292	Double Groove Pulley	DA-292	
1987-88	L6	4.8	292	Triple Groove Pulley	DA-293	
1987-91	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1987-91	V8	6.2	379		DA-3790	
1987-89	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1987-90	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
S15						
1982-87	V6	2.8	173	Stamped 9033	DA-1733	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
GMC (con't)						
S15 (con't)						
1982-90	V6	2.8	173	Stamped 4955	DA-1890	
1988-90	V6	4.3	262		DA-2621	
S15 JIMMY						
1983-87	V6	2.8	173	Stamped 9033	DA-1733	
1983-89	V6	2.8	173	Stamped 4955	DA-1890	
1988-94	V6	4.3	262		DA-2621	
1993-94	V6	4.3	262	Without Balance Shaft	DA-2622	
SAFARI						
1985-95	V6	4.3	262	Solid w/Balance Shaft	DA-2621	
1993-94	V6	4.3	262	Without Balance Shaft	DA-2622	
1996-05	V6	4.3	262		DA-1736	
SAVANA 1500						
1996-09	V6	4.3	262		DA-1736	
2003-05	V8	5.3	323		DA-3510	
2006-09	V8	5.3	325		DA-3510	
1996-02	V8	5.7	350		DA-3506	
SAVANA 2500, SAVANA 3500						
1996-05	V6	4.3	262		DA-1736	
2003-06	V8	4.8	294		DA-3510	
2003-05	V8	5.3	323		DA-3510	
1996-02	V8	5.7	350		DA-3506	
2003-09	V8	6.0	364		DA-3510	
1996-02	V8	6.5	395	Solid	DA-3950	
1996-02	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
SIERRA 1500						
1999-07	V6	4.3	262		DA-1736	
1999-06	V8	4.8	294		DA-3510	
1999-05	V8	5.3	323		DA-3510	
2006-09	V8	5.3	325		DA-3510	
2001-03	V8	6.0	364		DA-3510	
2005-06	V8	6.0	364		DA-3510	
2008-09	V8	6.0	364		DA-3510	
SIERRA 2500						
1999-00	V8	5.3	323		DA-3510	
1999-09	V8	6.0	364		DA-3510	
SIERRA 3500						
2001-09	V8	6.0	364		DA-3510	
SIERRA C3						
2001	V8	6.0	364		DA-3510	
SIERRA DENALI						
2002-06	V8	6.0	364		DA-3510	
SONOMA, SYCLONE, TYPHOON						
1991-93	V6	2.8	173		DA-1890	
1991-94	V6	4.3	262		DA-2621	
1993-95	V6	4.3	262	Without Balance Shaft	DA-2622	
1995	V6	4.3	262	Solid	DA-1736	
1996-04	V6	4.3	262		DA-1736	
SPRINT						
1971	L6	4.1	250	Single V Groove Pulley	DA-2500	
1971-72	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1975-76	L6	4.1	250		DA-2502	
1977	L6	4.1	250		DA-2503	
1976	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1977	V8	5.0	305		DA-3051	
1971-73	V8	5.0	307		DA-3270	DA-3270-HD

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
GMC (con't)						
SPRINT (con't)						
1971-74	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1971-75	V8	5.7	350	exc. Special Hi-Performance	DA-3071	DA-3071-HD
1976	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1976	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1977	V8	5.7	350		DA-3051	
1974	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1976	V8	6.6	400	8" Diameter w/counterweight	DA-400	DA-400-HD
1971-72	V8	6.6	402		DA-396	
1974	V8	6.6	402	4-Bbl Carb	DA-396	
1974-75	V8	6.6	402		DA-396	
1971-74	V8	7.4	454	Fine Threaded Bolt Holes For Pulley	DA-4543	DA-4541-HD
1971-75	V8	7.4	454	8" Diameter w/counterweight, w/Course Threaded Bolt Holes	DA-4541	DA-4541-HD
SUBURBAN						
1966-67	L6	4.1	250	Single V Groove Pulley	DA-2500	
1966-67	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1967	V8	5.4	327	6" Diameter	DA-3270	DA-3270-HD
V1500						
1987	V6	4.3	262		DA-2313	
1987	V8	5.0	305		DA-3051	
1987	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1987	V8	6.2	379		DA-3790	
V1500 SUBURBAN, V2500 SUBURBAN						
1987-91	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1987-91	V8	6.2	379		DA-3790	
V2500						
1987	L6	4.8	292	Double Groove Pulley	DA-292	
1987	L6	4.8	292	Triple Groove Pulley	DA-293	
1987	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1987	V8	6.2	379		DA-3790	
YUKON						
2000-06	V8	4.8	294		DA-3510	
2000-05	V8	5.3	323		DA-3510	
2005-09	V8	5.3	325		DA-3510	
1992-95	V8	5.7	350		DA-3502	DA-3502-HD
1996-00	V8	5.7	350		DA-3506	
2000-09	V8	6.0	364		DA-3510	
1994-97	V8	6.5	395	Solid	DA-3950	
1994-97	V8	6.5	395	Serpentine Belt Pulley	DA-3955	
HONDA						
ACCORD						
1990-93	L4	2.2	2156		DA-222	
1994-97	L4	2.2	2156		DA-220	
1998-00	L4	2.3	2254	USA Built	DA-225	
2001-02	L4	2.3	2254	w/MT; USA Built	DA-225	
CIVIC						
1992-95	L4	1.5L	1493	w/AT	DA-1595	
1992-95	L4	1.5L	1493	LX only	DA-1595	
1992-93	L4	1.6L	1590	w/AT	DA-1595	
2001	L4	1.7	1668		DA-225	
2005	L4	1.7	1668		DA-225	
2002-04	L4	1.7	1700		DA-225	
CIVIC DEL SOL						
1993-95	L4	1.5L	1493	w/AT	DA-1595	
1993	L4	1.6L	1590	w/AT	DA-1595	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
HONDA (con't)						
PRELUDE						
1992-96	L4	2.2	2156		DA-222	
1992-96	L4	2.3	2259		DA-222	
HONDA TRUCK						
ODYSSEY						
1995-97	L4	2.2	2156		DA-220	
PASSPORT						
1994-97	V6	3.2	3165	5.200" Small Pulley Diameter	DA-226	
1994-97	V6	3.2	3165	5.670" Large Pulley Diameter	DA-3164	
1998-02	V6	3.2	3165		DA-3165	
HUMMER						
H2						
2003-06	V8	6.0	364		DA-3510	
HYUNDAI						
ACCENT						
1995-99	L4	1.5	1495	DOHC; Overall Width 1.46"	DA-115	
1995-99	L4	1.5	1495	SOHC	DA-12	
1995-03	L4	1.5	1495	DOHC; 16 Valve	DA-92	
2006-08	L4	1.6	1599		DA-92	
2001-05	L4	1.6	1600	Overall Width 1.46"	DA-115	
2001-06	L4	1.6	1600	DOHC; 16 Valve	DA-92	
ELANTRA						
1992-95	L4	1.6	1596	Overall Width 1.81"	DA-15	
1992-95	L4	1.6	1596	OE # 2312433010	DA-98	
1992-95	L4	1.6	1596	OE # 2312433111	DA-110	
1996-97	L4	1.8	1795	OE # 2312423010	DA-112	
1998	L4	1.8	1796	OE # 2312423010	DA-112	
1993-95	L4	1.8	1836	OE # 2312433010	DA-98	
1993-95	L4	1.8	1836	OE # 2312433111	DA-110	
1999-00	L4	2.0	1975	OE # 2312423010	DA-112	
EXCEL						
1990-94	L4	1.5	1468		DA-13	
SCOUPE						
1991-92	L4	1.5	1468		DA-13	
1992	L4	1.5	1495	To 11/15/92	DA-10	
1992-93	L4	1.5	1495	From 11/15/92	DA-11	
1994-95	L4	1.5	1495		DA-12	
SONATA						
1992-98	L4	2.0	1997	OE # 2312433111	DA-110	
1992-98	L4	2.0	1997	OE # 2312438200	DA-122	
1995-98	L4	2.0	1997	Overall Width 1.81"	DA-15	
1989-91	L4	2.4	2351		DA-14	
1995-05	L4	2.4	2351	OE # 2312433111	DA-110	
1999-05	L4	2.4	2351	OE # 2312438200	DA-122	
1999-01	V6	2.5	2493		DA-153	
2002-05	V6	2.7	2656		DA-153	
1990-98	V6	3.0	2972		DA-16	
TIBURON						
1997	L4	1.8	1795		DA-112	
1997	L4	2.0	1975		DA-112	
1998-01	L4	2.0	1997		DA-112	
2003-08	V6	2.7	2656		DA-153	
HYUNDAI TRUCK						
SANTA FE						
2001	L4	2.4	2351	To 2/14/01	DA-122	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
HYUNDAI TRUCK (con't)						
SANTA FE (con't)						
2001-06	V6	2.7	2656		DA-153	
2006	V6	3.5	3467		DA-214	
2003-05	V6	3.5	3500		DA-214	
TUCSON						
2005-08	V6	2.7	2656		DA-153	
INFINITI						
I30						
1996-01	V6	3.0	2988		DA-1825	
ISUZU TRUCK						
AMIGO						
1999-00	V6	3.2	3165		DA-3165	
RODEO						
1994-97	V6	3.2	3165		DA-226	
1998-00	V6	3.2	3165		DA-3165	
TROOPER, VEHICROSS						
1998-00	V6	3.5	3475		DA-3165	
JEEP						
CHEROKEE						
1984-90	L4	2.5	150	w/Serpentine Belt	DA-240	
1987-00	L6	4.0	242		DA-242	
1975-80	L6	4.2	258		DA-258	
1981-83	L6	4.2	258	Built in Mexico; Code M (15th Digit of VIN)	DA-258	
1984-86	V6	2.8	173		DA-1733	
CJ5, CJ6, CJ7						
1984-86	L4	2.5	150	w/Serpentine Belt	DA-240	
1975-78	L6	3.8	232		DA-258	
1975-80	L6	4.2	258		DA-258	
1981-83	L6	4.2	258	Built in Mexico; Code M (15th Digit of VIN)	DA-258	
COMANCHE						
1986	L4	2.5	150	w/Serpentine Belt	DA-240	
1987-90	L4	2.5	150		DA-240	
1987-92	L6	4.0	242		DA-242	
1986	V6	2.8	173		DA-1733	
COMMANDER						
2006	V6	3.7	226		DA-321	
2006-09	V8	4.7	285		DA-321	
GRAND CHEROKEE						
1993-00	L6	4.0	242		DA-242	
2005-06	V6	3.7	226		DA-321	
2000-01	V8	4.7	287		DA-321	
2002-09	V8	4.7	285		DA-321	
GRAND WAGONEER						
1984-86	L6	4.2	258	Built in Mexico; Code M (15th Digit of VIN)	DA-258	
1987-91	V8	5.9	360		DA-3601	
J10						
1975-80	L6	4.2	258		DA-258	
1981-86	L6	4.2	258	Built in Mexico; Code M (15th Digit of VIN)	DA-258	
1987-88	V8	5.9	360		DA-3601	
J20						
1976	L6	4.2	258		DA-258	
1987-88	V8	5.9	360		DA-3601	
J-2500, J-2600						
1972-73	V8	5.9	360		DA-3601	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
JEEP (con't)						
LIBERTY						
2003-06	V6	3.7	226		DA-321	
SCRAMBLER						
1984-85	L4	2.5	150	w/Serpentine Belt	DA-240	
1981-85	L6	4.2	258	Built in Mexico; Code M (15th Digit of VIN)	DA-258	
WAGONEER						
1984-87	L4	2.5	150	w/Serpentine Belt	DA-240	
1987-90	L6	4.0	242		DA-242	
1980	L6	4.2	258		DA-258	
1981-83	L6	4.2	258	Built in Mexico; Code M (15th Digit of VIN)	DA-258	
1984-86	V6	2.8	173		DA-1733	
1972-79	V8	5.9	360		DA-3601	
WRANGLER						
1991-00	L6	4.0	242		DA-242	
KIA						
AMANTI						
2004-06	V6	3.5	3497		DA-214	
2007-08	V6	3.8	3778		DA-204	
OPTIMA						
2001	V6	2.5	2500		DA-153	
2002-06	V6	2.7	2656		DA-153	
RIO						
2001-02	L4	1.5	1493		DA-113	
2003-05	L4	1.6	1594		DA-113	
SEPHIA						
1998-01	L4	1.8	1793		DA-111	
SPECTRA						
2000-04	L4	1.8	1793		DA-111	
KIA TRUCK						
SEDONA						
2002-05	V6	3.5	3497		DA-214	
2006-08	V6	3.8	3778		DA-204	
SORENTO						
2008	V6	3.3	3342		DA-204	
2003-06	V6	3.5	3497		DA-215	
2007-08	V6	3.8	3778		DA-204	
SPORTAGE						
1995-02	L4	2.0	1998		DA-123	
2005-08	V6	2.7	2656		DA-153	
LEXUS						
ES300						
1992-93	V6	3.0	2959		DA-30	
1994-96	V6	3.0	2995		DA-31	
1997-03	V6	3.0	2959	Built in Japan	DA-31	
2004-05	V6	3.3	3300		DA-31	
RX300						
1999-03	V6	3.0	2995	Built in Japan	DA-31	
2004-05	V6	3.3	3300		DA-31	
LEXUS TRUCK						
GX470						
2003-06	V8	4.7	4663		DA-80	
LX470						
1998-07	V8	4.7	4663		DA-80	
RX400H						
2006	V6	3.3	3300		DA-31	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
LINCOLN						
CONTINENTAL						
1990-94	V6	3.8	232	Solid w/o Sensor Ring	DA-2320	
1990-94	V6	3.8	232	Solid w/Sensor Ring	DA-2332	
1980	V8	5.0	302	w/o EEC	DA-3022	
1984	V8	5.0	302	exc. California	DA-3021	DA-3021-HD
1985-87	V8	5.0	302		DA-3021	DA-3021-HD
LS						
2000-05	V6	3.0	182	DOHC	DA-1823	
MARK VI						
1980	V8	5.0	302	w/o EEC	DA-3022	
MARK VII						
1984	V8	5.0	302	exc. California	DA-3021	DA-3021-HD
1985-92	V8	5.0	302		DA-3021	DA-3021-HD
MARK VIII						
1996-98	V8	4.6	281		DA-2802	
TOWN CAR						
1992-00	V8	4.6	281	From 6/22/92	DA-2801	
1984-90	V8	5.0	302		DA-3021	DA-3021-HD
VERSAILLES						
1977-80	V8	5.0	302	w/o EEC	DA-3022	
1977	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
LINCOLN TRUCK						
BLACKWOOD						
2002	V8	5.4	330	2.303" Overall Width	DA-3301	
MARK LT						
2006	V8	5.4	330	2.303" Overall Width	DA-3301	
NAVIGATOR						
1998-00	V8	5.4	330	exc. 4 Valve	DA-3300	
2001-06	V8	5.4	330	2.303" Overall Width	DA-3301	
YEAR	CYL.	Liter	CC/CID	APPLICATION	PIONEER PART	PIONEER HD PART
MAZDA						
626, MX-6						
1993-95	L4	2.0	1991		DA-185	
1996-97	L4	2.0	1991	MT w/Double Serpentine Belt	DA-1605	
1996-97	L4	2.0	1991	AT w/Double Serpentine Belt	DA-1606	
1998-02	L4	2.0	1991	MT w/Double Serpentine Belt	DA-1606	
1993-97	V6	2.5	2497		DA-180	
MILLENNIA						
1995-02	V6	2.5	2497		DA-180	
PROTEGE						
1999-00	L4	1.6	1589		DA-1606	
1999-00	L4	1.8	1839	w/MT	DA-1606	
2001-03	L4	2.0	2000	w/MT	DA-1606	
MAZDA TRUCK						
MPV						
2000-01	V6	2.5	2497		DA-1822	
TRIBUTE						
2001-03	V6	3.0	2954		DA-1822	
2005	V6	3.0	182		DA-1822	
2004	V6	3.0	183		DA-1822	
2006-09	V6	3.0	183		DA-1822	
MERCURY						
CALIENTE						
1964-67	V8	4.7	289	w/6.50" Diameter	DA-289	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
MERCURY (con't)						
CAPRI						
1984-86	V8	5.0	302		DA-3021	DA-3021-HD
COLONY PARK						
1987-91	V8	5.0	302		DA-3021	DA-3021-HD
1971-73	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1971-74	V8	6.6	400		DA-3512	DA-3512-HD
COMET						
1964-67	V8	4.7	289	w/6.50" Diameter	DA-289	
1968-69	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1968-69	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1971-77	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1969	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1969	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
COMMUTER						
1967	V8	4.7	289	w/6.50" Diameter	DA-289	
COUGAR						
1999-02	V6	2.5	155		DA-1822	
1994-95	V6	3.8	232	California	DA-2332	
1996-97	V6	3.8	232		DA-2332	
1994-97	V8	4.6	281	6.81" Pulley Diameter	DA-2801	
1967-68	V8	4.7	289	w/6.50" Diameter	DA-289	
1968	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1968	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1970	V8	5.0	302	exc. Hi-Performance	DA-3022	
1977-79	V8	5.0	302	w/o EEC; To 12/2/79	DA-3022	
1984-88	V8	5.0	302	California; From 2/1/84	DA-3021	DA-3021-HD
1991-93	V8	5.0	302		DA-3021	DA-3021-HD
1969-74	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1969-79	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1970-71	V8	5.8	351	Cleveland Engine	DA-3514	
1972-74	V8	5.8	351	Cleveland Engine	DA-3515	
1973-74	V8	6.6	400		DA-3512	DA-3512-HD
CYCLONE						
1964-67	V8	4.7	289	w/6.50" Diameter	DA-289	
1968-69	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1968-69	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1970	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1969-71	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1969-72	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1970-71	V8	5.8	351	Cleveland Engine	DA-3514	
GRAND MARQUIS						
1992-00	V8	4.6	281	From 6/22/92	DA-2801	
1979	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1980	V8	5.0	302	w/o EEC	DA-3022	
1984-91	V8	5.0	302		DA-3021	DA-3021-HD
1978	V8	5.8	351	Modified Engine w/AT	DA-3512	DA-3512-HD
1979	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
MARQUIS						
1979	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1980	V8	5.0	302	w/o EEC	DA-3022	
1971	V8	5.8	351	Cleveland Engine	DA-3514	
1971-73	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1971-73	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1978-79	V8	5.8	351	Modified Engine w/AT	DA-3512	DA-3512-HD
1982	V8	5.8	351	w/6.40" Diameter; OE # E8TZ-6316-B	DA-3513	
1971-74	V8	6.6	400		DA-3512	DA-3512-HD

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
MERCURY (con't)						
MONARCH						
1975-79	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1980	V8	5.0	302	w/o EEC	DA-3022	
1975-77	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
MONTEGO						
1968-69	V8	5.0	302	3 bolt w/counterweight & raised pulley	DA-2008	DA-2008-HD
1968-69	V8	5.0	302	4 bolt w/counterweight & raised pulley	DA-3026	
1970-71	V8	5.0	302	exc. Hi-Performance	DA-3022	
1972-74	V8	5.0	302	w/6.51" Ring Diameter; OE # D8TZ-6316-B	DA-3022	
1969-74	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1969-76	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1970-71	V8	5.8	351	Cleveland Engine	DA-3514	
1972-74	V8	5.8	351	Cleveland Engine	DA-3515	
1972-74	V8	6.6	400		DA-3512	DA-3512-HD
MONTEREY						
1971	V8	5.8	351	Cleveland Engine	DA-3514	
1971-73	V8	5.8	351	3 bolt w/counterweight & counter sunk pulley	DA-2009	DA-2009-HD
1971-73	V8	5.8	351	Modified Engine	DA-3512	DA-3512-HD
1971-74	V8	6.6	400		DA-3512	DA-3512-HD
MYSTIQUE						
1995-00	V6	2.5	155		DA-1822	
SABLE						
1986-89	V6	3.0	182	SOHC	DA-1824	
1990-94	V6	3.0	182		DA-1821	
1996-05	V6	3.0	182	12 Valve	DA-1820	
1996-05	V6	3.0	182	DOHC; 24 Valve	DA-1823	
1990-95	V6	3.8	232	Solid w/o Sensor Ring	DA-2320	
1990-95	V6	3.8	232	Solid w/Sensor Ring	DA-2332	
TOPAZ						
1992-94	L4	2.3	140		DA-1401	
TRACER						
1991-96	L4	1.9	116		DA-1160	
1997-99	L4	2.0	122		DA-1160	
VILLAGER, VOYAGER						
1964-67	V8	4.7	289	w/6.50" Diameter	DA-289	
MERCURY TRUCK						
MARINER						
2005	V6	3.0	182		DA-1822	
2006-08	V6	3.0	183		DA-1822	
MOUNTAINEER						
1998-06	V6	4.0	245		DA-244	
1997-01	V8	5.0	302	w/6.40" Pulley Diameter; OE # F67Z-6312-AA	DA-3024	
MITSUBISHI						
3000GT						
1997-99	V6	3.0	2972	SOHC	DA-35	
DIAMANTE						
1992-96	V6	3.0	2972	SOHC	DA-35	
1997-04	V6	3.5	3497		DA-303	
ECLIPSE						
1990-94	L4	1.8	1755		DA-324	
1990-92	L4	2.0	1997		DA-261	
1993	L4	2.0	1997		DA-324	
1995-99	L4	2.0	1997	w/ Turbo	DA-261	
1995-99	L4	2.0	1997	w/o Turbo	DA-325	
1996-99	L4	2.4	2351		DA-261	
2000-05	V6	3.0	2972		DA-303	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
MITSUBISHI (con't)						
EXPO, EXPO LRV						
1992	L4	2.4	2351		DA-161	
1993	L4	2.4	2351		DA-261	
GALANT						
1989	L4	2.0	1997	SOHC	DA-161	
1989-92	L4	2.0	1997	DOHC	DA-261	
1992-93	L4	2.0	1997	SOHC	DA-161	
1994-96	L4	2.4	2351		DA-261	
1999-03	V6	3.0	2972		DA-303	
MIRAGE						
1987-90	L4	1.5	1468		DA-150	
1991-96	L4	1.5	1468	w/Serpentine Belt	DA-152	
1985-88	L4	1.6	1597		DA-324	
1999	L4	1.8	1834		DA-162	
PRECIS						
1990-93	L4	1.5	1468		DA-13	
MITSUBISHI TRUCK						
MIGHTY MAX						
1990-94	V6	3.0	2972		DA-300	
MONTERO						
1989-94	V6	3.0	2972		DA-300	
1995-96	V6	3.0	2972		DA-1260	
1994-00	V6	3.5	3497		DA-1260	
MONTERO SPORT						
1999-00	V6	3.5	3497		DA-1260	
NISSAN						
200SX, SENTRA						
1995-99	L4	1.6	1597		DA-40	
260Z						
1974-75	L6	2.6	2565		DA-41	
280Z, 280ZX						
1975-83	L6	2.8	2753		DA-41	
MAXIMA						
1995-01	V6	3.0	2988		DA-1825	
OLDSMOBILE						
442						
1968-70	V8	5.7	350		DA-4552	
1968-69	V8	6.6	400		DA-4552	
1968-71	V8	7.5	455		DA-4552	
88						
1992	V6	3.8	231	7" Diameter	DA-2314	DA-2314-HD
1993-94	V6	3.8	231		DA-2315	DA-2315-HD
1995	V6	3.8	231	Supercharged	DA-2318	
1995	V6	3.8	231	SFI	DA-2315	DA-2315-HD
1995	V6	3.8	231	MFI	DA-2316	
1996-99	V6	3.8	231		DA-2316	
98						
1986-87	V6	3.8	231	Stamped 25527381 or 25527009	DA-2311	
1986-87	V6	3.8	231	Stamped 25532179	DA-2324	
1988-91	V6	3.8	231	7 1/8" Diameter	DA-2312	DA-2312-HD
1991-92	V6	3.8	231	7" Diameter	DA-2314	DA-2314-HD
1992	V6	3.8	231	Supercharged	DA-2328	
1993-94	V6	3.8	231	Supercharged	DA-3523	
1993-94	V6	3.8	231	Non-Supercharged	DA-2315	DA-2315-HD
1995	V6	3.8	231	Double Serpentine Belt	DA-2318	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
OLDSMOBILE (con't)						
98 (con't)						
1995	V6	3.8	231	7.07" Pulley Diameter	DA-2325	
1995	V6	3.8	231	SFI	DA-2315	DA-2315-HD
1995	V6	3.8	231	MFI	DA-2316	
1996	V6	3.8	231		DA-2316	
1980-84	V8	5.0	307		DA-3072	
1972-78	V8	5.7	350		DA-4552	
1979-80	V8	5.7	350		DA-3072	
1975	V8	6.6	400		DA-4551	DA-4551-HD
1977-78	V8	6.6	403		DA-4552	
1979	V8	6.6	403		DA-3072	
1968-76	V8	7.5	455		DA-4552	
ACHIEVA						
1992-94	L4	2.3	140	164mm Diameter	DA-1460	
1992-95	L4	2.3	138		DA-1460	
1996-98	L4	2.4	146		DA-1460	
1994-98	V6	3.1	189		DA-1893	
1992	V6	3.3	204		DA-2322	
1993	V6	3.3	204		DA-2323	
ALERO						
1999-01	L4	2.4	146		DA-1460	
1999-04	V6	3.4	207		DA-1893	
AURORA						
1995-98	V8	4.0	244		DA-1735	
CALAIS, CUTLASS CALAIS						
1987-91	L4	2.3	138		DA-1460	
1989-91	L4	2.3	140	164mm Diameter	DA-1460	
1989-90	V6	3.3	204	7.07" Pulley Diameter; Overall Weight 7.94lbs.	DA-2321	
1989-91	V6	3.3	204	7.07" Pulley Diameter; Overall Weight 7.72lbs.	DA-2322	
1978-82	V8	4.3	260		DA-3072	
1978-80	V8	5.0	305		DA-3051	
1982-84	V8	5.0	307	3.20" Overall Width	DA-3072	
1984	V8	5.0	307	3.189" Overall Width	DA-4552	
1979-80	V8	5.7	350		DA-3072	
CUSTOM CRUISER						
1991-92	V8	5.0	305		DA-3051	
1980-90	V8	5.0	307		DA-3072	
1973	V8	5.7	350		DA-4552	
1977	V8	5.7	350	2.34" Overall Width	DA-3051	
1977-78	V8	5.7	350	3.189" Overall Width	DA-4552	
1979-80	V8	5.7	350	3.20" Overall Width	DA-3072	
1992	V8	5.7	350		DA-3051	
1975	V8	6.6	400		DA-4551	DA-4551-HD
1977-78	V8	6.6	403		DA-4552	
1979	V8	6.6	403		DA-3072	
1971-76	V8	7.5	455		DA-4552	
CUTLASS						
1968	L6	4.1	250	Double V Groove Pulley; w/o AC; w/o HDC	DA-2501	
1968-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1969-71	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1975-76	L6	4.1	250		DA-2502	
1997-99	V6	3.1	189		DA-1893	
1975-81	V8	4.3	260		DA-3072	
1978-80	V8	5.0	305		DA-3051	
1968-77	V8	5.7	350		DA-4552	
1978-79	V8	5.7	350	2.34" Overall Width	DA-3051	
1979-80	V8	5.7	350	3.20" Overall Width	DA-3072	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
OLDSMOBILE (con't)						
CUTLASS (con't)						
1977	V8	6.6	403		DA-4552	
1970-76	V8	7.5	455		DA-4552	
CUTLASS CIERA						
1987-92	L4	2.5	151		DA-151	
1982	V6	2.8	173	Stamped 4874	DA-1731	
1982	V6	2.8	173	Stamped 4955	DA-1890	
1986	V6	2.8	173	Stamped 4874	DA-1731	
1986	V6	2.8	173	Stamped 4955	DA-1890	
1987-89	V6	2.8	173	w/AT	DA-1732	
1994-96	V6	3.1	189		DA-1893	
1989-92	V6	3.3	204	7.07" Pulley Diameter; Overall Weight 7.72lbs.	DA-2322	
1990	V6	3.3	204	7.07" Pulley Diameter; Overall Weight 7.94lbs.	DA-2321	
1993	V6	3.3	204		DA-2323	
1986-88	V6	3.8	231		DA-2311	
CUTLASS CRUISER						
1987-90	L4	2.5	151		DA-151	
1987-89	V6	2.8	173	w/AT	DA-1732	
1989-90	V6	3.3	204	7.07" Pulley Diameter; Overall Weight 7.94lbs.	DA-2321	
1989-90	V6	3.3	204	7.07" Pulley Diameter; Overall Weight 7.72lbs.	DA-2322	
1987-88	V6	3.8	231		DA-2311	
1980-82	V8	4.3	260		DA-3072	
1980	V8	5.0	305		DA-3051	
1982	V8	5.0	305		DA-3051	
1981-83	V8	5.0	307		DA-3072	
1980	V8	5.7	350		DA-3072	
CUTLASS SALON						
1975-80	V8	4.3	260		DA-3072	
1978-80	V8	5.0	305		DA-3051	
1985-86	V8	5.0	307	3.189" Overall Width	DA-4552	
1985-87	V8	5.0	307	3.20" Overall Width	DA-3072	
1975-77	V8	5.7	350	3.189" Overall Width	DA-4552	
1979	V8	5.7	350	3.20" Overall Width	DA-3072	
1977	V8	6.6	403		DA-4552	
1975-76	V8	7.5	455		DA-4552	
CUTLASS SUPREME						
1990	L4	2.3	140	164mm Diameter	DA-1460	
1990-91	L4	2.3	138		DA-1460	
1975-76	L6	4.1	250		DA-2502	
1988-89	V6	2.8	173	w/AT	DA-1732	
1989-92	V6	3.1	189		DA-1732	
1993	V6	3.1	189	exc. California	DA-1732	
1993-97	V6	3.1	189		DA-1893	
1975-82	V8	4.3	260		DA-3072	
1978-80	V8	5.0	305		DA-3051	
1982-87	V8	5.0	307	3.20" Overall Width	DA-3072	
1987	V8	5.0	307	3.189" Overall Width	DA-4552	
1972-77	V8	5.7	350	3.189" Overall Width	DA-4552	
1978	V8	5.7	350	2.34" Overall Width	DA-3051	
1979-80	V8	5.7	350	3.20" Overall Width	DA-3072	
1977	V8	6.6	403		DA-4552	
1971-76	V8	7.5	455		DA-4552	
DELTA 88						
1986-88	V6	3.8	231	Stamped 25527381 or 25527009	DA-2311	
1986-88	V6	3.8	231	Stamped 25532179	DA-2324	
1988-90	V6	3.8	231	7 1/8" Diameter	DA-2312	DA-2312-HD
1991	V6	3.8	231	7" Diameter	DA-2314	DA-2314-HD

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
OLDSMOBILE (con't)						
DELTA 88 (con't)						
1977-82	V8	4.3	260		DA-3072	
1980-85	V8	5.0	307		DA-3072	
1968-78	V8	5.7	350	3.189" Overall Width	DA-4552	
1977	V8	5.7	350	2.34" Overall Width	DA-3051	
1979-80	V8	5.7	350	3.20" Overall Width	DA-3072	
1975	V8	6.6	400		DA-4551	DA-4551-HD
1977-78	V8	6.6	403		DA-4552	
1979	V8	6.6	403		DA-3072	
1968-76	V8	7.5	455		DA-4552	
F85						
1966-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1966-71	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1968-72	V8	5.7	350		DA-4552	
1970	V8	7.5	455		DA-4552	
1972	V8	7.5	455		DA-4552	
FIRENZA						
1987	V6	2.8	173	w/AT	DA-1732	
INTRIGUE						
1998-99	V6	3.8	231		DA-2316	
LSS						
1996-99	V6	3.8	231	Supercharged	DA-2318	
1996-99	V6	3.8	231	Non-Supercharged	DA-2316	
OMEGA						
1973-74	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1975-76	L6	4.1	250		DA-2502	
1982-84	V6	2.8	173	Stamped 4955	DA-1890	
1984	V6	2.8	173	Stamped 4874	DA-1731	
1975-77	V8	4.3	260		DA-3072	
1977-79	V8	5.0	305		DA-3051	
1973-74	V8	5.7	350		DA-4552	
1977	V8	5.7	350	3.189" Overall Width	DA-4552	
1977-79	V8	5.7	350	2.34" Overall Width	DA-3051	
REGENCY						
1997-98	V6	3.8	231		DA-2316	
STARFIRE						
1977-79	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
TORONADO						
1986-87	V6	3.8	231	7" Diameter	DA-2311	
1986-87	V6	3.8	231	7.22" Diameter	DA-2324	
1988-91	V6	3.8	231	7 1/8" Diameter	DA-2312	DA-2312-HD
1991-92	V6	3.8	231	7" Diameter	DA-2314	DA-2314-HD
1980-85	V8	5.0	307		DA-3072	
1979	V8	5.7	350	3.189" Overall Width	DA-4552	
1980	V8	5.7	350	3.20" Overall Width	DA-3072	
1977-78	V8	6.6	403		DA-4552	
1968-76	V8	7.5	455		DA-4552	
VISTA CRUISER						
1968-77	V8	5.7	350		DA-4552	
1977	V8	6.6	403		DA-4552	
1970-76	V8	7.5	455		DA-4552	
OLDSMOBILE TRUCK						
BRAVADA						
1991-94	V6	4.3	262		DA-2621	
1996-01	V6	4.3	262		DA-1736	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
OLDSMOBILE TRUCK (con't)						
SILHOUETTE						
1996-04	V6	3.4	207		DA-1893	
1992	V6	3.8	231	7" Diameter	DA-2314	DA-2314-HD
1993-95	V6	3.8	231	Serpentine Belt w/6.921" Pulley Diameter	DA-2315	DA-2315-HD
1995	V6	3.8	231	Serpentine Belt w/7.07" Pulley Diameter	DA-2316	
PLYMOUTH						
ACCLAIM						
1989-95	V6	3.0	181		DA-1300	
BARRACUDA, DUSTER						
1965-76	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1972-74	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1972	V8	5.6	340	For Permance Race (SFI) Balancer Order 872037	DA-318	
BELVEDERE						
1960-70	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1966-67	V8	7.2	440	Steel Crank	DA-440	
CARAVELLE						
1978-83	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
COLT						
1987-90	L4	1.5	90		DA-150	
1991-94	L4	1.5	90	w/Serpentine Belt	DA-152	
1993	L4	2.4			DA-261	
CUDA, ROADRUNNER						
1972-75	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1972	V8	5.6	340	For Permance Race (SFI) Balancer Order 872037	DA-318	
1969-71	V8	7.2	440	Steel Crank	DA-440	
CUSTOM, FLEET SPECIAL, SAVOY, SPORT WAGON, SUBURBAN						
1960-64	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
FURY, I, II, III						
1960-61	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1968-73	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1975-78	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1972-73	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1975-78	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1967-71	V8	7.2	440	Steel Crank	DA-440	
GRAN FURY						
1980-83	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1972-73	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1975-77	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1980-89	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1980	V8	5.9	360		DA-3602	
GTX, SUPERBIRD, VIP						
1967-71	V8	7.2	440	Steel Crank	DA-440	
LASER						
1990-94	L4	1.8	107		DA-324	
1990-94	L4	2.0	122		DA-261	
NEON						
1995	L4	2.0	122	SOHC	DA-223	
1996-99	L4	2.0	122		DA-223	
2000-01	L4	2.0	122		DA-202	
PROWLER						
1997	V6	3.5	215		DA-322	
1999-01	V6	3.5	215		DA-322	
SATELLITE						
1966-67	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1971-74	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1972-74	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
PLYMOUTH						
SATELLITE (con't)						
1972	V8	5.6	340	For Permance Race (SFI) Balancer Order 872037	DA-318	
1966-67	V8	7.2	440	Steel Crank	DA-440	
SCAMP						
1971-76	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1972-76	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
SUNDANCE						
1992-94	V6	3.0	181		DA-1300	
VALIANT						
1961	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1965-76	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1972-76	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
VOLARE						
1976-80	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1976-80	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979-80	V8	5.9	360		DA-3602	
PLYMOUTH TRUCK						
GRAND VOYAGER, VOYAGER						
1987-00	V6	3.0	181		DA-1300	
1990-00	V6	3.3	201		DA-203	
1994-95	V6	3.8	230		DA-203	
1999	V6	3.8	230		DA-203	
PB100, PB200, PB300						
1974-80	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1974-80	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1979-80	V8	5.9	360	w/AT	DA-3602	
PB150, PB250, PB350						
1981-83	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1981-83	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1981	V8	5.9	360	w/AT	DA-3602	
TRAILDUSTER						
1974-81	V8	5.2	318	For Permance Race (SFI) Balancer Order 872037	DA-318	
1975-80	L6	3.7	225	Single Groove - Three Spoke Hub - Timing Tab on Pass Side	DA-2250	
1979-81	V8	5.9	360	w/AT	DA-3602	
PONTIAC						
6000						
1987-91	L4	2.5	151		DA-151	
1982-86	V6	2.8	173	Stamped 4955	DA-1890	
1983-86	V6	2.8	173	Stamped 4874	DA-1731	
1987-89	V6	2.8	173	w/AT	DA-1732	
1988-91	V6	3.1	189		DA-1732	
BONNEVILLE						
1987-88	V6	3.8	231	Stamped 25527381 or 25527009	DA-2311	
1987-88	V6	3.8	231	Stamped 25532179	DA-2324	
1988-91	V6	3.8	231	7 1/8" Diameter	DA-2312	DA-2312-HD
1991-92	V6	3.8	231	7" Diameter	DA-2314	DA-2314-HD
1992	V6	3.8	231	Supercharged	DA-2328	
1993-94	V6	3.8	231	Supercharged	DA-3523	
1993-94	V6	3.8	231	Non-Supercharged	DA-2315	DA-2315-HD
1995	V6	3.8	231	Serpentine Belt w/6.921" Pulley Diameter	DA-2315	DA-2315-HD
1995	V6	3.8	231	Serpentine Belt w/7.07" Pulley Diameter	DA-2316	
1995-99	V6	3.8	231	Supercharged	DA-2318	
1996-99	V6	3.8	231	Non-Supercharged	DA-2316	
1986	V6	4.3	262		DA-2313	
1983-86	V8	5.0	305		DA-3051	
1981	V8	5.0	307		DA-3072	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
PONTIAC (con't)						
BONNEVILLE (con't)						
1970	V8	5.7	350	w/o Ram Air	DA-4551	DA-4551-HD
1977	V8	5.7	350	6.79" Ring Diameter	DA-4551	DA-4551-HD
1977-78	V8	5.7	350	6.50" Ring Diameter	DA-4552	
1979-80	V8	5.7	350		DA-3072	
1968-70	V8	6.6	400	w/o Ram Air	DA-4551	DA-4551-HD
1971	V8	6.6	400		DA-4551	DA-4551-HD
1973-78	V8	6.6	400		DA-4551	DA-4551-HD
1977-78	V8	6.6	403		DA-4552	
1979	V8	6.6	403		DA-3072	
1968-69	V8	7.0	428	w/o Ram Air	DA-4551	DA-4551-HD
1970	V8	7.5	455	w/o Ram Air	DA-4551	DA-4551-HD
1971-76	V8	7.5	455		DA-4551	DA-4551-HD
CATALINA, EXECUTIVE						
1980	V6	3.8	229		DA-2313	
1981	V8	5.0	307		DA-3072	
1970	V8	5.7	350	w/o Ram Air	DA-4551	DA-4551-HD
1971-73	V8	5.7	350		DA-4551	DA-4551-HD
1976-77	V8	5.7	350	6.79" Ring Diameter	DA-4551	DA-4551-HD
1977-78	V8	5.7	350	6.50" Ring Diameter	DA-4552	
1979-80	V8	5.7	350		DA-3072	
1967-70	V8	6.6	400	w/o Ram Air	DA-4551	DA-4551-HD
1971-78	V8	6.6	400		DA-4551	DA-4551-HD
1977-78	V8	6.6	403		DA-4552	
1979	V8	6.6	403		DA-3072	
1968-69	V8	7.0	428	w/o Ram Air	DA-4551	DA-4551-HD
1970	V8	7.5	455	w/o Ram Air	DA-4551	DA-4551-HD
1971-76	V8	7.5	455		DA-4551	DA-4551-HD
FIERO						
1987-88	L4	2.5	151		DA-151	
FIREBIRD						
1968-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1968-74	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1975-76	L6	4.1	250		DA-2502	
1983-87	V6	2.8	173	Stamped 9033	DA-1733	
1985-89	V6	2.8	173	Stamped 4955	DA-1890	
1990-92	V6	3.1	189		DA-1890	
1995-96	V6	3.8	231		DA-2316	
1997	V6	3.8	231	w/AT	DA-2316	
1977-84	V8	5.0	305	6.74" Pulley Diameter	DA-3051	
1985-87	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
1985-92	V8	5.0	305	6.74" Pulley Diameter	DA-3051	
1987-92	V8	5.0	305	Solid; w/7" Diameter	DA-3071	DA-3071-HD
1968-70	V8	5.7	350	w/o Ram Air	DA-4551	DA-4551-HD
1971-77	V8	5.7	350	6.79" Ring Diameter	DA-4551	DA-4551-HD
1977	V8	5.7	350	6.50" Ring Diameter	DA-4552	
1978-79	V8	5.7	350		DA-3051	
1987-92	V8	5.7	350	7" Diameter	DA-3071	DA-3071-HD
1993-97	V8	5.7	350	w/5 Poly Vees; OE #12551138	DA-3505	
1998-02	V8	5.7	350	w/3 & 5 Poly Vees; OE # 1253118	DA-3507	
1968-70	V8	6.6	400	w/o Ram Air	DA-4551	DA-4551-HD
1971-79	V8	6.6	400		DA-4551	DA-4551-HD
1977-79	V8	6.6	403		DA-4552	
1971-76	V8	7.5	455		DA-4551	DA-4551-HD
GRAND AM						
1988-95	L4	2.3	138		DA-1460	
1989-94	L4	2.3	140	164mm Diameter	DA-1460	
1996-01	L4	2.4	146		DA-1460	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
PONTIAC (con't)						
GRAND AM (con't)						
1994-98	V6	3.1	189		DA-1893	
1992	V6	3.3	204		DA-2322	
1993	V6	3.3	204		DA-2323	
1999-05	V6	3.4	207		DA-1893	
1978-80	V8	5.0	305		DA-3051	
1973	V8	5.7	350		DA-4551	DA-4551-HD
1975	V8	5.7	350		DA-4551	DA-4551-HD
1973-75	V8	6.6	400		DA-4551	DA-4551-HD
1973-75	V8	7.5	455		DA-4551	DA-4551-HD
GRAND LEMANS						
1975-76	L6	4.1	250		DA-2502	
1980-81	V6	3.8	229		DA-2313	
1976	V8	4.3	260		DA-3072	
1977-80	V8	5.0	305		DA-3051	
1975-77	V8	5.7	350	6.79" Ring Diameter	DA-4551	DA-4551-HD
1977	V8	5.7	350	6.50" Ring Diameter	DA-4552	
1978-79	V8	5.7	350		DA-3051	
1975-77	V8	6.6	400		DA-4551	DA-4551-HD
1977	V8	6.6	403		DA-4552	
1975-76	V8	7.5	455		DA-4551	DA-4551-HD
GRAND PRIX						
1990-91	L4	2.3	138		DA-1460	
1988-89	V6	2.8	173	w/AT	DA-1732	
1989-92	V6	3.1	189		DA-1732	
1993	V6	3.1	189	exc. California	DA-1732	
1994-03	V6	3.1	189		DA-1893	
1997-03	V6	3.8	231	Supercharged	DA-2318	
1997-03	V6	3.8	231	Non-Supercharged	DA-2316	
1986	V6	4.3	262		DA-2313	
1978-80	V8	5.0	305		DA-3051	
1983-87	V8	5.0	305		DA-3051	
1976-77	V8	5.7	350	6.79" Ring Diameter	DA-4551	DA-4551-HD
1977	V8	5.7	350	6.50" Ring Diameter	DA-4552	
1968-70	V8	6.6	400	w/o Ram Air	DA-4551	DA-4551-HD
1971-77	V8	6.6	400		DA-4551	DA-4551-HD
1977	V8	6.6	403		DA-4552	
1968-69	V8	7.0	428	w/o Ram Air	DA-4551	DA-4551-HD
1970	V8	7.5	455	w/o Ram Air	DA-4551	DA-4551-HD
1971-76	V8	7.5	455		DA-4551	DA-4551-HD
GRAND SAFARI, GRANDVILLE						
1977	V8	5.7	350		DA-4552	
1971	V8	6.6	400		DA-4551	DA-4551-HD
1973-78	V8	6.6	400		DA-4551	DA-4551-HD
1977-78	V8	6.6	403		DA-4552	
1971-76	V8	7.5	455		DA-4551	DA-4551-HD
GTO						
1970	V8	5.7	350	w/o Ram Air	DA-4551	DA-4551-HD
2004	V8	5.7	350		DA-3507	
2005-06	V8	6.0	364		DA-3507	
1968-70	V8	6.6	400	w/o Ram Air	DA-4551	DA-4551-HD
1971	V8	6.6	400		DA-4551	DA-4551-HD
1970	V8	7.5	455	w/o Ram Air	DA-4551	DA-4551-HD
1971	V8	7.5	455		DA-4551	DA-4551-HD
LAURENTIAN, PARISIENNE						
1980	V6	3.8	229		DA-2313	
1983	V6	3.8	229		DA-2313	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
PONTIAC (con't)						
LAURENTIAN, PARISIENNE (con't)						
1985-86	V6	4.3	262		DA-2313	
1983-86	V8	5.0	305		DA-3051	
1986	V8	5.0	307		DA-3072	
1976	V8	5.7	350	8" Diameter	DA-3502	DA-3502-HD
1976	V8	7.5	455		DA-4551	DA-4551-HD
LEMANS						
1968-71	L6	4.1	250	Single V Groove Pulley	DA-2500	
1968-74	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1975-76	L6	4.1	250		DA-2502	
1980-81	V6	3.8	229		DA-2313	
1976	V8	4.3	260		DA-3072	
1977-80	V8	5.0	305		DA-3051	
1968-70	V8	5.7	350	w/o Ram Air	DA-4551	DA-4551-HD
1971-77	V8	5.7	350	6.79" Ring Diameter	DA-4551	DA-4551-HD
1977	V8	5.7	350	6.50" Ring Diameter	DA-4552	
1978-79	V8	5.7	350		DA-3051	
1968-70	V8	6.6	400	w/o Ram Air	DA-4551	DA-4551-HD
1971-77	V8	6.6	400		DA-4551	DA-4551-HD
1977	V8	6.6	403		DA-4552	
1968-69	V8	7.0	428	w/o Ram Air	DA-4551	DA-4551-HD
1970	V8	7.5	455	w/o Ram Air	DA-4551	DA-4551-HD
1970-74	V8	7.5	455		DA-4551	DA-4551-HD
1976	V8	7.5	455		DA-4551	DA-4551-HD
PHOENIX						
1982-84	V6	2.8	173	Stamped 4955	DA-1890	
1984	V6	2.8	173	Stamped 4874	DA-1731	
1977-79	V8	5.0	305		DA-3051	
1977	V8	5.7	350	6.50" Ring Diameter	DA-4552	
1977-79	V8	5.7	350	6.74" Ring Diameter	DA-3051	
SAFARI						
1968	L6	4.1	250	Single V Groove Pulley	DA-2500	
1970	L6	4.1	250	Single V Groove Pulley	DA-2500	
1987-89	V8	5.0	307		DA-3072	
1968	V8	5.7	350		DA-4551	DA-4551-HD
1970	V8	5.7	350		DA-4551	DA-4551-HD
1968	V8	6.6	400		DA-4551	DA-4551-HD
1970	V8	6.6	400		DA-4551	DA-4551-HD
SUNBIRD						
1991-94	V6	3.1	189		DA-1732	
1978-79	V8	5.0	305	7" Diameter	DA-3071	DA-3071-HD
SUNFIRE						
1995	L4	2.3	138		DA-1460	
1996-02	L4	2.4	146		DA-1460	
TEMPEST						
1968-70	L6	4.1	250	Single V Groove Pulley	DA-2500	
1968-70	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1968	V8	5.7	350	w/o Ram Air	DA-4551	DA-4551-HD
1970	V8	5.7	350	w/o Ram Air	DA-4551	DA-4551-HD
1968-70	V8	6.6	400	w/o Ram Air	DA-4551	DA-4551-HD
1969	V8	7.0	428	w/o Ram Air	DA-4551	DA-4551-HD
VENTURA						
1971	L6	4.1	250	Single V Groove Pulley	DA-2500	
1971-74	L6	4.1	250	w/o AC; w/o HDC	DA-2501	
1975-76	L6	4.1	250		DA-2502	
1975-76	V8	4.3	260		DA-3072	
1971-72	V8	5.0	307		DA-3270	DA-3270-HD

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
PONTIAC (con't)						
VENTURA (con't)						
1972-75	V8	5.7	350		DA-4551	DA-4551-HD
1977	V8	5.7	350	6.50" Ring Diameter	DA-4552	
1977	V8	5.7	350	6.74" Ring Diameter	DA-3051	
VIBE						
2003-06	L4	1.8	1795		DA-19	
PONTIAC TRUCK						
AZTEK						
2001-05	V6	3.4	207		DA-1893	
MONTANA						
1999-05	V6	3.4	207		DA-1893	
TRANS SPORT						
1996-98	V6	3.4	207		DA-1893	
1992-94	V6	3.8	231	7" Diameter	DA-2314	DA-2314-HD
1993-94	V6	3.8	231		DA-2315	DA-2315-HD
1995	V6	3.8	231		DA-2316	
SAAB						
900						
1979-80	L4	2.0	1985	B201 engine	DA-2000	
1979-84	L4	2.0	1985	5.90" Pulley Diameter	DA-9003	
1984	L4	2.0	1985	B201 engine	DA-2001	
1985-90	L4	2.0	1985		DA-9002	
1985-94	L4	2.0	1985		DA-9000	
1995-98	L4	2.0	1985		DA-2003	
1994-97	V6	2.5	2498		DA-3005	
9000						
1986-90	L4	2.0	1985		DA-9001	
1989-90	L4	2.0	1985	B202I Engine	DA-2004	
1989-90	L4	2.0	1985	B202 Engine w/EKZ Ignition	DA-2005	
1991-93	L4	2.3	2290		DA-2006	
1994	L4	2.3	2290		DA-2007	
1994-98	L4	2.3	2290		DA-2003	
1995-97	V6	3.0	2961		DA-3005	
9-3						
1999-01	L4	2.0	1985		DA-2003	
9-5						
1999-02	V6	3.0	2961		DA-3005	
99						
1972-80	L4	2.0	1985	B201 engine	DA-2000	
SATURN						
L, LS, LW SERIES						
2002-04	V6	3.0	181		DA-3001	
LS2, LW2						
2000	V6	3.0	181		DA-3001	
SC, SL, SW SERIES						
1996-02	L4	1.9	116		DA-1700	
SATURN TRUCK						
VUE						
2002-03	V6	3.0	181		DA-3001	
SCION						
TC						
2005-07	L4	2.4	2398		DA-23	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
SUBARU						
DL, GL, GL-10, STANDARD						
1985-89	H4	1.8	1781	Sedan w/OHC	DA-3550	
IMPREZA						
2002-05	H4	2.0	1994		DA-205	
1999-01	H4	2.2	2212		DA-205	
1999-09	H4	2.5	2458		DA-250	
LEGACY						
1996-99	H4	2.2	2212	Code P (9th Digit of Model Plate)	DA-3551	
1996	H4	2.5	2458	Code P (9th Digit of Model Plate)	DA-3551	
2000-09	H4	2.5	2458		DA-250	
LOYALE						
1990-94	H4	1.8	1781		DA-3550	
OUTBACK						
2001-09	H4	2.5	2458		DA-250	
SUBARU TRUCK						
BAJA						
2003-06	H4	2.5	2458		DA-250	
FORESTER						
1999-09	H4	2.5	2458	From 5/99	DA-250	
TOYOTA						
AVALON						
1995-04	V6	3.0	2995		DA-31	
CAMRY						
1987-91	L4	2.0	1998		DA-20	
1992-01	L4	2.2	2164		DA-22	
2002-07	L4	2.4	2362		DA-23	
1992-93	V6	3.0	2959		DA-30	
1994-03	V6	3.0	2995		DA-31	
CELICA						
1990-97	L4	1.6	1587	5.118" Pulley Diameter; Overall Weight 1.913lbs.	DA-17	
1990-93	L4	1.6	1587	5.118" Pulley Diameter; Overall Weight 1.996lbs.	DA-28	
1994-97	L4	1.8	1762		DA-17	
2000-04	L4	1.8	1794	Eng. Desg 1ZZFE	DA-19	
2000-05	L4	1.8	1795	Eng. Desg 2ZZGE	DA-18	
1987-89	L4	2.0	1998		DA-20	
1978-80	L4	2.2	2189		DA-70	
1990-93	L4	2.2	2164		DA-20	
1994-99	L4	2.2	2164		DA-22	
1981-85	L4	2.4	2366		DA-70	
COROLLA						
1988-89	L4	1.6	1587	5.118" Pulley Diameter; Overall Weight 1.913lbs.	DA-17	
1987-91	L4	1.6	1587	5.120" Pulley Diameter; Overall Weight 3.43lbs.	DA-69	
1988-92	L4	1.6	1587	5.118" Pulley Diameter; Overall Weight 1.996lbs.	DA-28	
1992-97	L4	1.6	1587	From 9/92	DA-17	
1993-97	L4	1.8	1762		DA-17	
1999-05	L4	1.8	1794	Eng. Desg 1ZZFE	DA-19	
2005-06	L4	1.8	1795	Eng. Desg 2ZZGE	DA-18	
CORONA						
1978-80	L4	2.2	2189		DA-70	
MATRIX						
2003-04	L4	1.8	1794	Eng. Desg 1ZZFE	DA-19	
2003-06	L4	1.8	1795	Eng. Desg 2ZZGE	DA-18	
MR2 SPYDER						
2000-05	L4	1.8	1794		DA-19	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
TOYOTA (con't)						
SOLARA						
1999-01	L4	2.2	2164		DA-22	
2002-07	L4	2.4	2362		DA-23	
1999-03	V6	3.0	2995		DA-31	
2004-05	V6	3.3	3300		DA-31	
TOYOTA TRUCK						
4RUNNER						
1985-95	L4	2.4	2366		DA-70	
1996-00	L4	2.7	2694		DA-29	
1996-02	V6	3.4	3378		DA-32	
2003-07	V8	4.7	4663		DA-80	
HIGHLANDER						
2001-06	L4	2.4	2362		DA-23	
2001-03	V6	3.0	2995	Built in Japan	DA-31	
2004-06	V6	3.3	3300	Built in Japan	DA-31	
LAND CRUISER						
1973-74	L6	3.9	3878	w/Oil Cooler	DA-63	
1973-74	L6	3.9	3878	w/o Oil Cooler	DA-64	
1988-89	L6	4.0	3956	w/o AC	DA-66	
1990-92	L6	4.0	3956		DA-66	
1975	L6	4.2	4227	w/o Oil Cooler	DA-64	
1976-87	L6	4.2	4227		DA-65	
1999-07	V8	4.7	4663		DA-80	
PICKUP						
1978-80	L4	2.2	2189		DA-70	
1981-83	L4	2.2	2188		DA-25	
1984-88	L4	2.4	2366		DA-70	
1986-87	L4	2.4	2366		DA-25	
1990-95	L4	2.4	2366		DA-70	
RAV4						
1996-00	L4	2.0	1998		DA-22	
2001-07	L4	2.4	2362		DA-23	
SEQUOIA						
2001-06	V8	4.7	4663		DA-80	
SIENNA						
1998-03	V6	3.0	2995		DA-31	
2004-05	V6	3.3	3300		DA-31	
T100, TACOMA						
1995-04	L4	2.4	2438		DA-29	
1994-04	L4	2.7	2694		DA-29	
1995-04	V6	3.4	3378		DA-32	
TUNDRA						
2000-04	V6	3.4	3378		DA-32	
2000-07	V8	4.7	4663		DA-80	
VAN						
1984-85	L4	2.0	1998		DA-24	
1986-89	L4	2.2	2237		DA-24	
VOLVO						
240						
1990-93	L4	2.3	2316		DA-740	
244, 245						
1985-89	L4	2.3	2316		DA-740	
740						
1985-92	L4	2.3	2316	Eng Desg. B230F	DA-740	
1989-90	L4	2.3	2316	Eng Desg. B234F	DA-940	

YEAR	CYL	Liter	CC/ CID	APPLICATION	PIONEER PART	PIONEER HD PART
VOLVO (con't)						
745, 760, 780						
1985-91	L4	2.3	2316		DA-740	
850						
1994-97	L5	2.3	2319		DA-5252	
1993-97	L5	2.4	2435		DA-5252	
940						
1991-93	L4	2.3	2316	w/o Turbo	DA-940	
1991-95	L4	2.3	2316	Turbo	DA-740	
C70, S70, V70						
1998	L5	2.3	2319		DA-5252	
1998	L5	2.4	2435		DA-5252	

Harmonic Balancers

— QUICK REFERENCE GUIDE —

Pioneer Up-Grade to Premium RACING
Quality! Coverage! Selection!

	STANDARD	PREMIUM	STREET PERFORMANCE	PERFORMANCE RACE (SFI)
CH 318	DA-318		872020	872037
CH 360	DA-3602			872038
GM 307	DA-3071	DA-3071-HD	872002	872022
GM 327	DA-3270	DA-3270-HD	872001	872021
GM 400	DA-400	DA-400-HD	872004	872024
GM 427		DA-427-HD	872005	872025
GM 454	DA-4541	DA-4541-HD	872006	872026
GM 455	DA-4551	DA-4551-HD	872011	872031
GM 350	DA-3502	DA-3502-HD	872003	872023
GM 350	DA-3507		872012	872041
GM 350	DA-3505		872013	
FM 281	DA-2801		872014	872035
FM 289			872019	
FM 302		DA-2008-HD	872008	872028
FM 302	DA-2009	DA-2009-HD	872009	872029
FM 302	DA-3021	DA-3021-HD	872010	872030
FM 302			872018	
FM 351	DA-3512	DA-3512-HD	872007	872027
FM 351			872018	872032
FM 460	DA-4601		872017	872036

(If Vin Code Blank, Fits All Unless Specified.)

PRODUCT SECTION

PERFORMANCE STREET/RACE BALANCERS 872



STREET

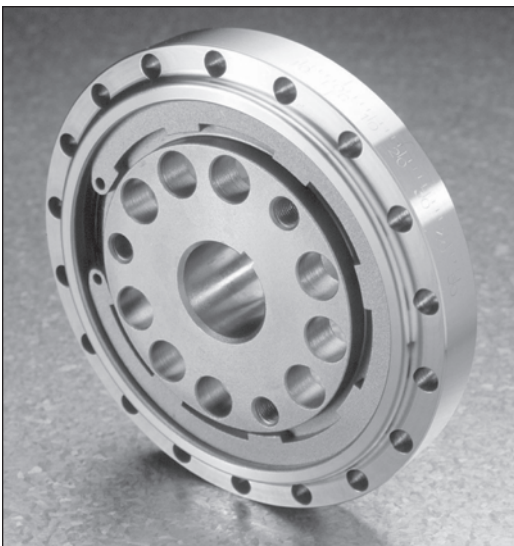
The Pioneer Street Series brings bonded balancer technology within the budget of every performance street engine builder from mild to wild. They also make a great heavy-duty standard replacement balancer.

Pioneer Street Balancers are also perfect for limited spec race classes such as late-model stock that require an OEM style balancer.

The bonded dampening rubber in every Pioneer Street balancer eliminates spinning and component separation giving reliable performance in engines used to 6500rpm.

Pioneer Street Series combines new high-strength SG (Nodular) Iron balancer centres with new inertia rings, bonded then balanced to extremely tight tolerances.

All Pioneer Street balancers feature easy-to-read permanently etched timing marks on the outer ring.



RACE

Pioneer Race balancers bring the advantages of bonded rubber to high revving race and street / race applications where an SFI approved balancer is required.

Every Pioneer Race balancer features a precision CNC machined AUSI 1045 steel centre bonded to an equally strong steel inertia ring. Advanced design means that Race balancers are very light for an all steel product. In most cases, they are only marginally heavier than the original cast iron balancer and generally much lighter than other all steel balancers on the market.

The steel inertia ring of the Race models is positively protected against forward and backward movement and has the assurance of bonded rubber to eliminate spinning.

Every model has easy-to-read computer etched timing marks.

All Pioneer Race balancers meet SFI specification 18.1 and are tested and approved to 12,500 rpm.



SERPENTINE

Late model engines with Serpentine belts driven off the damper ring create much higher loads on both the inertia ring and dampening material. The strength and durability of Pioneer bonding technology is even more critical on Serpentine engines particularly in performance or race applications.

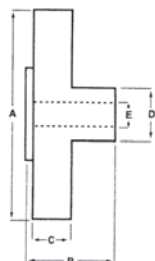
Pioneer Serpentine balancers are available for popular late model applications including Chevy LT1, LS1 and LS6 and the Ford 4.6 and 5.4 litre Modular series. To give engine builders maximum flexibility, Street and SFI Race and versions are available. In addition, Race versions are offered in standard diameter and 10% under drive and 25% under drive.

For the LT1 engines, Pioneer offers three bolt on crank flange hubs. These hubs are manufactured from billet steel and are machined to accept a 3/16" keyway for added strength for use with Race Balancer ONLY.

PRODUCT SECTION

Pioneer Number	Application	Balanced	Wt. (Lbs.)	Pulley Pattern	A	B	C	D	E
CHEVROLET — STREET BALANCERS									
872001	Chevrolet — 90° V6 and Small Block V8 w/ 6 1/4" dia. (Note — TDC mark is located 10° from key-way)	Internal	4.63	3-Bolt	6.12	2.34	0.75	1.76	1.24
872002	Chevrolet — 90° V6 and Small Block V8 w/ 7" dia. (Note — TDC mark is located 10° from key-way)	Internal	8.16	3-Bolt	6.75	2.34	1.19	1.76	1.24
872003	Chevrolet — 90° V6 and Small Block V8 w/ 8" dia. (Note — TDC mark is located 13° from key-way)	Internal	10.4	3-Bolt	8.01	2.33	1.31	1.76	1.24
872004	Chevrolet — Small Block 400 w/ 8" dia.	External	10.5	3-Bolt	8.00	2.33	1.51	1.76	1.24
872005	Chevrolet — Big Block V8 w/ 8" dia.	Internal	12.9	3-Bolt	8.00	2.68	1.71	2.33	1.59
872006	Chevrolet — Big Block 454 & 502 w/ 8" dia.	External	14.3	3-Bolt	8.00	2.68	1.73	2.33	1.59
872012	Chevrolet — 350 Gen 111 LS1 Camaro, Firebird, GTO	Internal	10.5	3-Bolt	7.50	3.58	1.37	2.13	1.48
872013	Chevrolet — 350 LT1 1993-1997 (Not LT4)	Internal	8.8	3-Bolt	7.50	N/A	1.280	N/A	N/A
CHEVROLET — RACE BALANCERS									
872021	Chevrolet — 90° V6 and Small Block V8 w/ 6 1/4" dia. (Note — TDC mark is located 10° from key-way)	Internal	6.0	3-Bolt	6.10	2.36	1.32	1.76	1.24
872022	Chevrolet — 90° V6 and Small Block V8 w/ 7" dia. (Note — TDC mark is located 10° from key-way)	Internal	8.5	3-Bolt	6.72	2.36	1.32	1.764	1.24
872023	Chevrolet — 90° V6 and Small Block V8 w/ 8" dia. (Note — TDC mark is located 13° from key-way)	Internal	11.2	3-Bolt	7.96	2.33	1.60	1.76	1.24
872024	Chevrolet — Small Block 400 w/ 8" dia.	External	10.6	3-Bolt	7.96	2.33	1.60	1.76	1.24
872025	Chevrolet — Big Block V8 w/ 8" dia.	Internal	15.4	3-Bolt	7.96	2.68	1.94	2.33	1.59
872026	Chevrolet — Big Block 454 & 502 w/ 8" dia.	External	15.9	3-Bolt	7.96	2.68	1.94	2.33	1.59
872041	Chevrolet — 350 Gen. 111 LS1 Camaro, Firebird, GTO	Internal	11.2	3-Bolt	7.50	3.66	1.37	2.13	1.48
872042	Chevrolet — 350 Gen. 111 LS1 Camaro, Firebird, GTO w/10% underdrive	Internal	9.9	3-Bolt	6.81	3.66	1.37	2.13	1.48
872043	Chevrolet — 350 LT1 1993-97(Not LT4) (use w/ crank flange hub 872015, 872016 or 872049)	Internal	9.5	3-Bolt	7.50	N/A	1.280	N/A	N/A
872044	Chevrolet — 350LT1 1993-97 with 10% underdrive (NOT LT4) (Use w/crank flange hub 872015, 872016 or 872049)	Internal	8.37	3-Bolt	6.75	N/A	1.280	N/A	N/A
872046	Chevrolet — Big Block V8 w/ 7" dia.	Internal	9.00	3-Bolt	7.00	2.68	1.50	2.33	1.59
872047	Chevrolet — 350 Gen. 111 LS2, LS6 Corvette, SSR	Internal	11	3-Bolt	7.50	2.83	2.40	2.13	1.48
872048	Chevrolet — Small Block 400 w/ 7" dia.	External	8.6	3-Bolt	6.75	2.34	1.19	1.76	1.24
872050	Chevrolet — 350 Gen. 111 LS2, LS6 Corvette, SSR w/10% underdrive (front accessory pulley is 6.51 o.d.)	Internal	11	3-Bolt	7.24	2.83	2.40	2.13	1.48
872055	Chevrolet — 350 Gen. 111 LS1 Camaro, Firebird, GTO w/25% underdrive	Internal	9.9	3-Bolt	6.22	3.87	1.37	2.13	1.48
872058	Chevrolet — 350 Gen. 111 LS2, LS6 Corvette, SSR	Internal	9.82	3-Bolt	7.24	2.83	2.45	2.13	1.48
NEW! 872060	Chevrolet — 90° V6 and Small Block V8 w/6-1/4"; Big Block snout (Note- TDC mark is located 10° from key-way)	Internal	6.13	3-Bolt	6.10	2.36	1.32	2.33	1.59
NEW! 872061	Chevrolet — 90° V6 and Small Block V8 w/7" Dia.; Big Block Snout (Note- TDC mark is located 10° from key-way)	Internal	8.36	3-Bolt	6.72	2.36	1.32	2.33	1.59
NEW! 872063	Chevrolet — 350 Gen. 111 LS1/LS2/LS6 Corvette, SSR w/8" rib pulley for super charger conversion	Internal	11	3-Bolt	7.50	2.83	2.45	2.13	1.48
CHEVROLET — CRANK FLANGE HUBS									
872015	Chevrolet — 350 LT1 F-Body 1993-95 and Corvette 1992-95 w/keyway slot replaces OEM No. 12553250 (Use 3/16" x 1-3/8" Woodruff Key)			3-Bolt			3.516		
872016	Chevrolet — 350 LT1 Caprice and Impala 193-95 w/keyway slot replaces OEM No. 10168570 (Use 3/16" x 1-38" Woodruff Key)			3-Bolt			4.09		
872049	Chevrolet — 350 LT1 F-Body 1996-97 and Corvette 1996 w/keyway slot replaces OEM No. 12550097 (Use 3/16" x 1-3/8" Woodruff Key)			3-Bolt			3.417		

INSTALLATION INSTRUCTIONS:



- All balancers are designed to be installed with a standard OEM length bolt, torqued to the vehicle manufacturers specifications. After market high tensile balancer bolts are recommended for race applications and are available for Pioneer.
- Please use a purpose built balancer removal and installation tool to avoid damage to the balancer and crankshaft.
- After removal of the old balancer inspect your crankshaft for burrs nicks & keyway damage, use a fine file to clean up any damage.
- Stone or file a slight radius to break the sharp edge on the end of the crankshaft snout.
- Inspect crankshaft key for damage and replace if necessary.
- Use an anti-seize lubricant on the crank snout before installing your new balancer.
- Correct interference fit between the balancer hub and crankshaft is essential to transmit vibration to the balancer assembly.

Recommended Interference Fit is as follows:

.7510" -	1.0000" -	---	.0008" -	.0012"
1.0010" -	1.2500" -	---	.0009" -	.0013"
1.2510" -	1.3750" -	---	.0010" -	.0014"
1.3760" -	1.6000" -	---	.0011" -	.0015"
1.6010" -	2.0000" -	---	.0013" -	.0017"

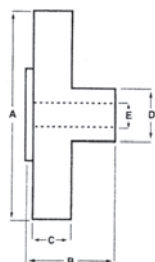
- The crank O.D. must be checked with a micrometer and the balancer I.D. with a bore gauge to verify correct interference fit.
- Balancer bores are manufactured at bottom tolerance to accommodate variation in aftermarket crankshaft diameters. Your balancer I.D. may require honing to achieve the correct interference fit.

PRODUCT SECTION

PERFORMANCE STREET / RACE BALANCERS - Cont'd.									
Pioneer No.	Application	Balanced	Wt. (Lbs.)	Pulley Pattern	A	B	C	D	E
CHRYSLER — STREET BALANCERS									
872020	Chrysler — 318-340	Internal	7.7	6-Bolt	7.08	2.56	.950	2.18	1.55
872039	Chrysler — 383-440	Internal	7.7	6-Bolt	7.11	2.56	1.20	2.18	1.53
CHRYSLER — RACE BALANCERS									
872037	Chrysler — 318-340	Internal	9.4	6-Bolt	7.24	2.60	1.20	2.19	1.55
872038	Chrysler — 360	External	9.4	6-Bolt	7.21	2.56	1.20	2.19	1.55
872040	Chrysler — 383-440	Internal	9.4	6-Bolt	7.11	2.56	1.20	2.18	1.53
FORD — STREET BALANCERS									
872007	Ford — 351 Cleveland w/ Counter Weighted Hub	External	9.3	4-Bolt	6.50	3.50	1.26	1.87	1.37
872008	Ford — 302-351W w/28 oz. Counter Weighted Hub and raised pulley location	External	9.2	3-Bolt	6.50	3.18	1.26	1.87	1.37
872009	Ford — 302-351W w/ 28oz. Counter Weighted Hub and countersunk pulley location	External	9.1	3-Bolt	6.50	3.02	1.26	1.87	1.37
872010	Ford — 302 HO w/ EFI and 50 oz. counter weighted ring	External	9.1	4-Bolt	6.40	4.13	1.50	1.87	1.37
872014	Ford — Mustang 4.6 (SOHC)	Internal	6.8	3-Bolt	6.75	1.75	1.25	1.75	1.25
872017	Ford — 429-460	1	8.32	4-Bolt	6.62	2.43	1.37	2.18	1.37
872018	Ford — 302-351W w/28 oz. counter weighted hub	External	10.11	4-Bolt	6.50	4.09	1.29	1.87	1.37
872019	Ford — 289	External	6.6	3-Bolt	6.33	3.00	.760	1.87	1.37
872052	Ford — 5.4 SOHC and DOHC V8 w/ 6 groove pulley	Internal	9.0	3-Bolt	7.05	2.32	1.83	1.87	1.25
872056	Ford — 390 FE Big Block w/o integral pulley	Internal	7.7	4-Bolt	7.00	1.574	1.102	2.00	1.374
FORD — RACE BALANCERS									
872027	Ford — 351 Cleveland w/counter weighted hub	External	10.9	4-Bolt	6.50	3.50	1.39	1.87	1.37
872028	Ford — 302-351W w/28oz. counter weighted hub and raised pulley location	External	10.9	3-Bolt	6.50	3.18	1.39	1.87	1.37
872029	Ford — 302-351W C.I.D.w/28oz. counter weighted hub and countersunk pulley location	External	10.9	3-Bolt	6.50	3.02	1.39	1.87	1.37
872030	Ford — 302 HO w/ EFI and 50oz. counter weighted ring	External	9.9	4-Bolt	6.37	4.13	1.57	1.87	1.37
872032	Ford — 302-351W C.I.D. w/28oz. counter weighted hub	External	11.4	4-Bolt	6.50	4.11	1.39	1.87	1.37
872034	Ford — 302-351W	Internal	8.0	4-Bolt	6.10	4.13	1.57	1.87	1.37
872035	Ford — Mustang 4.6 (SOHC)	Internal	7.2	3-Bolt	6.88	1.80	1.32	1.75	1.25
872036	Ford — 429-460	1	9.2	4-Bolt	6.76	2.40	1.48	2.18	1.37
872053	Ford — 5.4 SOHC and DOHC V8 w/10% underdrive w/6 groove pulley	Internal	9.1	3-Bolt	6.35	2.32	1.83	1.87	1.25
872057	Ford — 390 FE Big Block w/o integral pulley	Internal	8.9	4-Bolt	7.00	1.78	1.156	2.00	1.374
HONDA — RACE BALANCERS									
NEW! 872062	Honda — B16-B18A/B Civic, Integra w/air cond. & power steering; Alternator pulley is 20% under drive	Internal	5.00	N/A	5.00	2.48	2.20	1.617	1.09
PONTIAC — STREET BALANCERS									
872011	Pontiac — 301-455	Internal	6.8	4-Bolt	6.79	3.24	1.13	1.87	1.37
PONTIAC — RACE BALANCERS									
872031	Pontiac — 301-455	Internal	10.4	4-Bolt	6.76	2.84	1.26	1.87	1.37

1 — Replaces Internal and External Balanced Dampers. Must be used with O.E. weighted sleeve for external balanced applications.

INSTALLATION INSTRUCTIONS:



- All balancers are designed to be installed with a standard OEM length bolt, torqued to the vehicle manufacturers specifications. After market high tensile balancer bolts are recommended for race applications and are available for Pioneer.
- Please use a purpose built balancer removal and installation tool to avoid damage to the balancer and crankshaft.
- After removal of the old balancer inspect your crankshaft for burrs nicks & keyway damage, use a fine file to clean up any damage.
- Stone or file a slight radius to break the sharp edge on the end of the crankshaft snout.
- Inspect crankshaft key for damage and replace if necessary.
- Use an anti-seize lubricant on the crank snout before installing your new balancer.
- Correct interference fit between the balancer hub and crankshaft is essential to transmit vibration to the balancer assembly.

Recommended Interference Fit is as follows:

.7510" -	1.0000" -	---	.0008" -	.0012"
1.0010" -	1.2500" -	---	.0009" -	.0013"
1.2510" -	1.3750" -	---	.0010" -	.0014"
1.3760" -	1.6000" -	---	.0011" -	.0015"
1.6010" -	2.0000" -	---	.0013" -	.0017"

- The crank O.D. must be checked with a micrometer and the balancer I.D. with a bore gauge to verify correct interference fit.
- Balancer bores are manufactured at bottom tolerance to accommodate variation in aftermarket crankshaft diameters. Your balancer I.D. may require honing to achieve the correct interference fit.

Harmonic Balancer Bolts & High Performance Applications

Adjustable Timing Indicator

Pioneer Performance Products now offers a trick looking and functional timing indicator to complement our Street and Race Harmonic Balancers. These indicators feature a blue anodized aluminum construction and are adjustable to 4 degrees.

For Pioneer Performance and other after market harmonic balancers.

Includes mounting bolts.

PIONEER NO.	APPLICATION
839051	Chevrolet – 90° V6, Small Block V8 w/6-1/4" Balancer
839052	Chevrolet – 90° V6, Small Block V8 w/7" Balancer
839053	Chevrolet – 90° V6, Small Block V8 w/8" Balancer
839054	Chevrolet – Big Block V8 w/8" Balancer
839058	Chevrolet – Big Block V8 w/7" Balancer
839060	Ford – 302-351 W



Balancer Bolt Kits

Pioneer Performance Harmonic Balancer Bolt Kits feature a hi-tensile hex head bolt, extra thick parallel ground washer for more uniform torque and a hi-tensile lock washer.

Yellow diechromate finish.

Conveniently skin-packaged.

PIONEER NO.	APPLICATION
859012	Chevrolet – 90° V6, Small Block
859013	Chevrolet – Big Block



One-Piece Harmonic Balancer Bolt

Hi-tensile chrome moly steel: heat treated.

Features rolled threads and black oxide finish.

Large 3/4" hex head and integral washer make this a heavy-duty piece.

PIONEER NO.	APPLICATION
859045	Chevrolet - 90° V6, Small Block
859046	Chevrolet - Big Block



(If Vin Code Blank, Fits All Unless Specified.)

Harmonic Balancer Tools

Damper Installation & Removal Tool

Fits SMALL AND BIG BLOCK Chevy crankshafts.
Uses a thrust bearing to "ease" damper in place.

PIONEER NO.	ADAPTER SIZE
488200	Chevrolet – Small & Big Block
488205	Ford



Universal Harmonic Balancer Installer

Includes eight adapters (7/16", 1/2", 5/8", 9/16", 3/4", 12mm, 14mm and 16mm) to fit most 4, 6 and 8 cylinder engines, domestic and import. Thrust bearing smoothly squeezes balancer onto crankshaft

PIONEER NO.	ADAPTER SIZE
488206	7/16", 1/2", 5/8", 9/16", 3/4", 12mm, 14mm, 16mm



Harmonic Balancer Puller

Designed to pull crankshafts, vibration dampers, pulleys or any gear with tapped holes. Four slots in yoke allow use for two or three-hole applications.

Floating swivel prevents damage to shaft ends.

Slide screws are included:

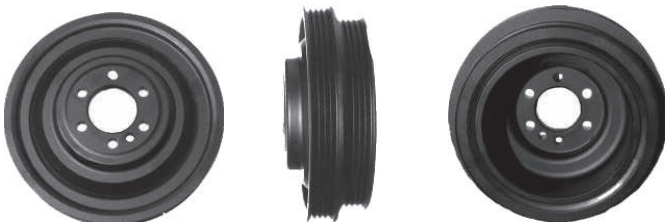
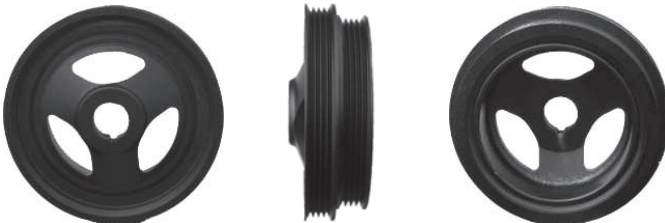
- 3 – 3/8" - 24 N.F. - 2" hex bolts
- 3 – 5/16" - 18 N.C. - 2" hex bolts
- 2 – 3/8" - 16 N.C. - 4" hex bolts

PIONEER NO.	
T-640	Harmonic Balancer Puller



(If Vin Code Blank, Fits All Unless Specified.)

HARMONIC BALANCER ILLUSTRATIONS

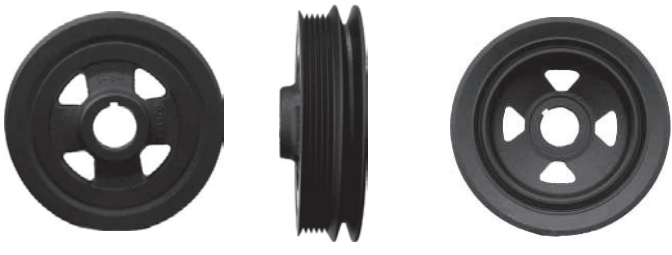
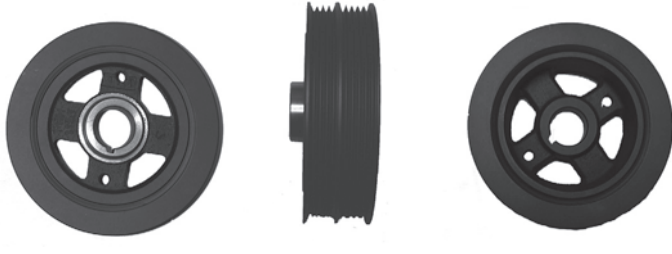
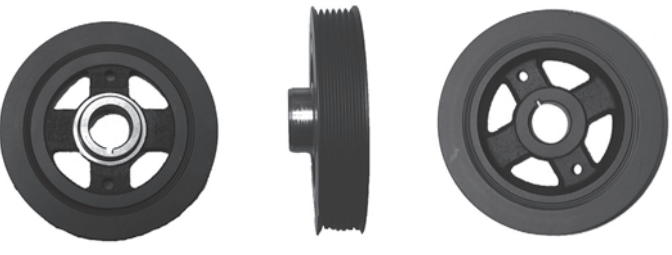
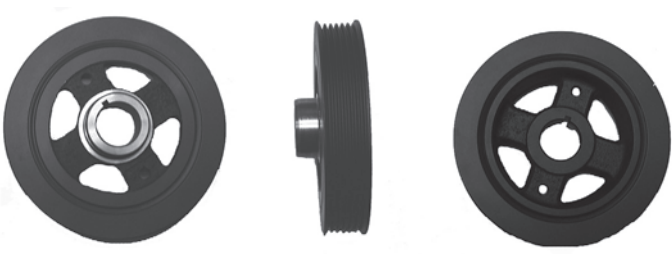
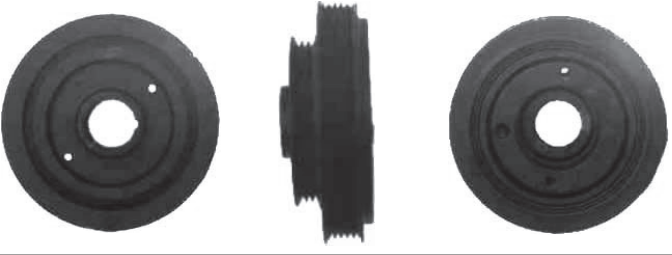
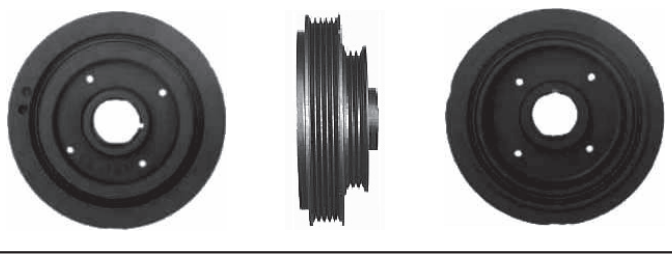
PIONEER NO. DA-10 CRANK BORE.....1.26" (32mm) LARGE PULLEY DIAMETER5.87" (149mm) SMALL PULLEY DIAMETER.....4.57" (116mm) WEIGHT.....4.63 Lbs. OVERALL WIDTH2.11" (53.50mm)	
PIONEER NO. DA-11 CRANK BORE.....1.26" (32mm) LARGE PULLEY DIAMETER5.87" (149mm) SMALL PULLEY DIAMETER.....4.57" (116mm) WEIGHT.....4.19 Lbs. OVERALL WIDTH2.11" (53.5mm) 3 POLY VEES	
PIONEER NO. DA-12 CRANK BORE.....0.94" (24mm) LARGE PULLEY DIAMETER5.91" (150mm) SMALL PULLEY DIAMETER.....5.31" (135mm) WEIGHT.....3.97 Lbs. OVERALL WIDTH2.03" (51.5mm)	
PIONEER NO. DA-13 CRANK BORE.....1.26" (32mm) PULLEY DIAMETER5.91" (150mm) WEIGHT.....2.87 Lbs. OVERALL WIDTH1.34" (34mm) 3 POLY VEES	
PIONEER NO. DA-14 CRANK BORE.....1.57" (40mm) LARGE PULLEY DIAMETER6.38" (162mm) SMALL PULLEY DIAMETER.....6.02" (153mm) WEIGHT.....4.85 Lbs. OVERALL WIDTH1.44" (36.5mm) 3 POLY VEES	
PIONEER NO. DA-15 CRANK BORE.....1.57" (40mm) LARGE PULLEY DIAMETER6.38" (162mm) SMALL PULLEY DIAMETER.....6.10" (155mm) WEIGHT.....4.63 Lbs. OVERALL WIDTH1.81" (46mm)	

HD - HEAVY DUTY APPLICATION

SFI - SFI RACE APPLICATION

SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

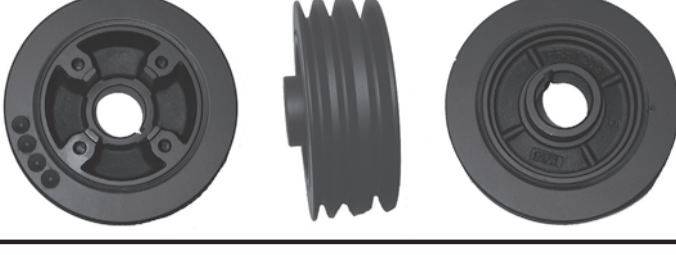
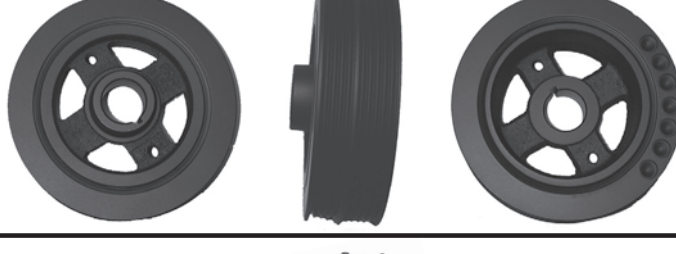
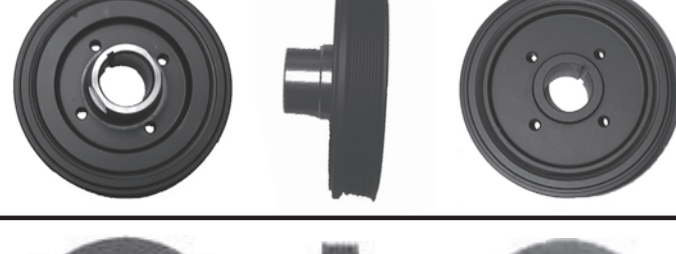
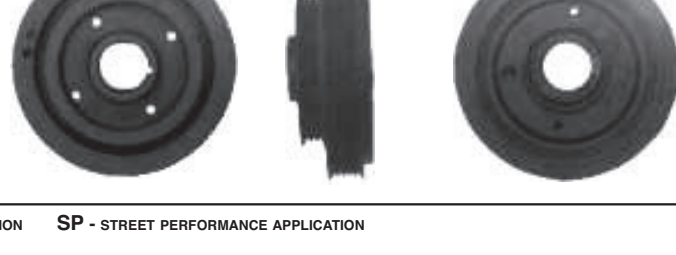
PIONEER NO. DA-16 CRANK BORE.....1.18" (30mm) LARGE PULLEY DIAMETER6.38" (162mm) SMALL PULLEY DIAMETER.....6.06" (154mm) WEIGHT.....5.07 Lbs. OVERALL WIDTH.....2.09" (53mm)	
PIONEER NO. DA-17 CRANK BORE.....0.984" (25mm) PULLEY DIAMETER5.118" (130mm) WEIGHT.....4.74 Lbs. OVERALL WIDTH.....1.913" (48.6mm)	
PIONEER NO. DA-18 CRANK BORE.....0.984" (25mm) PULLEY DIAMETER5.118" (130mm) NOSE DIAMETER1.496" (38mm) WEIGHT.....3.29 Lbs. OVERALL WIDTH.....1.614" (41mm)	
PIONEER NO. DA-19 CRANK BORE.....0.984" (25mm) PULLEY DIAMETER5.118" (130mm) NOSE DIAMETER1.496" (38mm) WEIGHT.....3.29 Lbs. OVERALL WIDTH.....1.614" (41mm)	
PIONEER NO. DA-20 CRANK BORE.....1.22" (31mm) LARGE PULLEY DIAMETER5.71" (145mm) SMALL PULLEY DIAMETER.....3.94" (100mm) WEIGHT.....5.12 Lbs. OVERALL WIDTH.....2.09" (53mm)	
PIONEER NO. DA-22 CRANK BORE.....1.22" (31mm) LARGE PULLEY DIAMETER5.71" (145mm) SMALL PULLEY DIAMETER.....3.94" (100mm) WEIGHT.....3.89 Lbs. OVERALL WIDTH.....2.11" (53.5mm)	

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HARMONIC BALANCER ILLUSTRATIONS

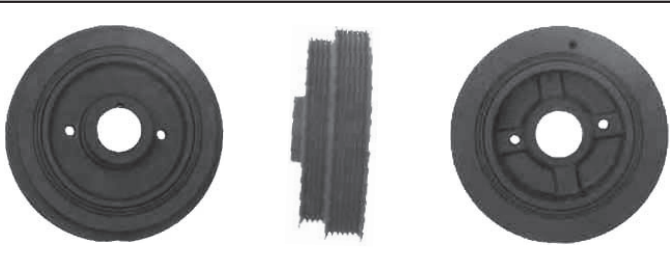
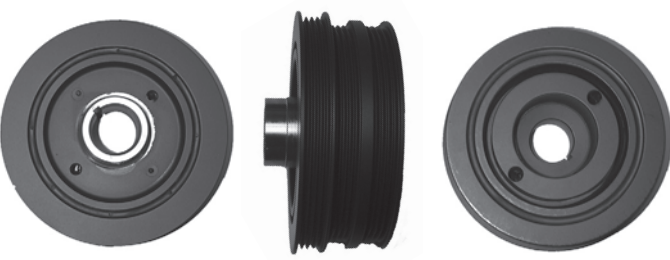
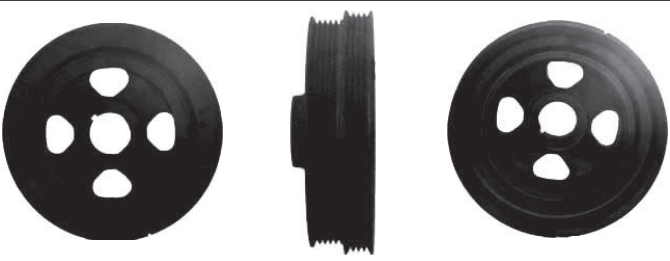
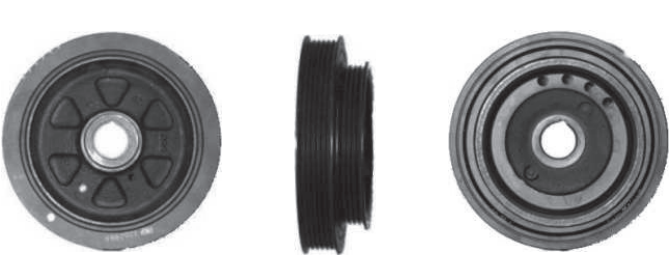
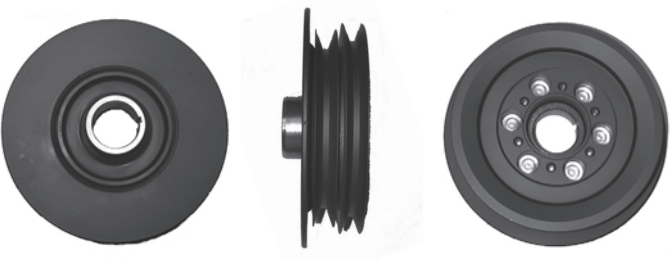
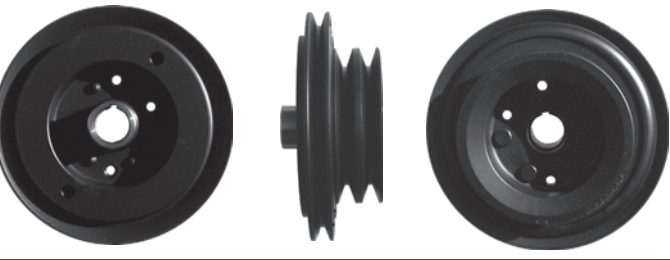
PIONEER NO. DA-23 CRANK BORE.....1.063" (27mm) PULLEY DIAMETER.....5.634" (143.1mm) NOSE DIAMETER.....1.575" (40mm) WEIGHT.....3.53 Lbs. OVERALL WIDTH.....1.740" (44.2mm)	
PIONEER NO. DA-24 CRANK BORE.....1.142" (29mm) PULLEY DIAMETER.....5.531" (140.5mm) NOSE DIAMETER.....1.654" (42mm) WEIGHT.....4.30 Lbs. OVERALL WIDTH.....2.224" (56.5mm)	
PIONEER NO. DA-25 CRANK BORE.....1.299" (33mm) PULLEY DIAMETER.....5.571" (141.5mm) NOSE DIAMETER.....1.811" (46mm) WEIGHT.....6.61 Lbs. OVERALL WIDTH.....2.618" (66.5mm)	
PIONEER NO. DA-28 CRANK BORE.....0.984" (25mm) PULLEY DIAMETER.....5.118" (130mm) WEIGHT.....4.74 Lbs. OVERALL WIDTH.....1.996" (50.7mm)	
PIONEER NO. DA-29 CRANK BORE.....1.291" (32.8mm) PULLEY DIAMETER.....5.509" (139.92mm) NOSE DIAMETER.....1.811" (46mm) WEIGHT.....4.01 Lbs. OVERALL WIDTH.....2.335" (59.3mm)	
PIONEER NO. DA-30 CRANK BORE.....1.22" (31mm) LARGE PULLEY DIAMETER.....5.71" (145mm) SMALL PULLEY DIAMETER.....4.65" (118mm) WEIGHT.....5.53 Lbs. OVERALL WIDTH.....2.17" (55mm)	

HD - HEAVY DUTY APPLICATION

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SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

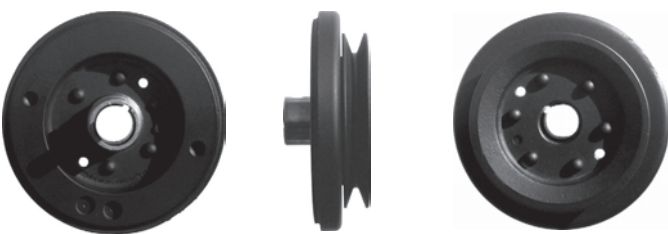
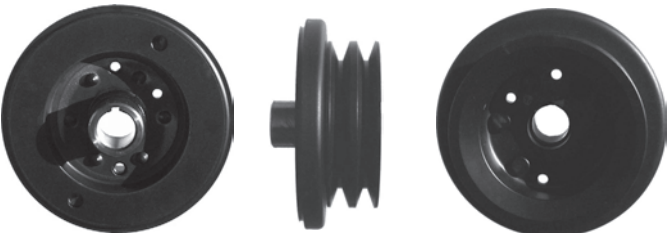
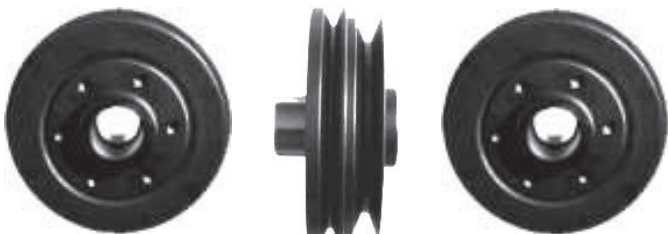
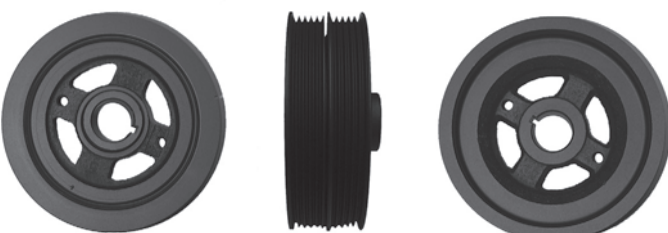
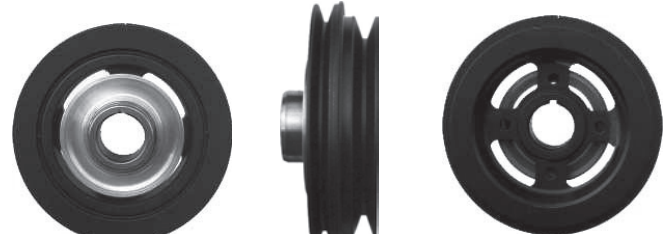
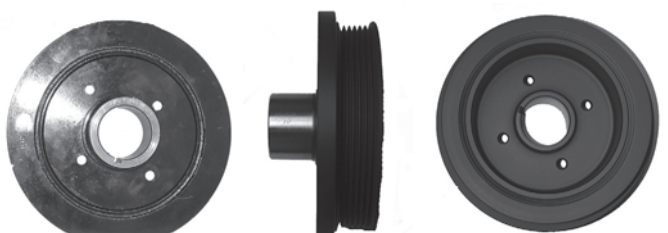
PIONEER NO. DA-31 CRANK BORE.....1.22" (31mm) LARGE PULLEY DIAMETER6.18" (157mm) SMALL PULLEY DIAMETER.....5.55" (141mm) WEIGHT.....4.51 Lbs. OVERALL WIDTH.....2.09" (53mm)	
PIONEER NO. DA-32 CRANK BORE.....1.221" (31mm) SMALL PULLEY DIAMETER.....5.510" (140mm) SMALL PULLEY DIAMETER.....5.510" (140mm) LARGE PULLEY DIAMETER5.900" (150mm) WEIGHT.....10.05 Lbs. OVERALL WIDTH.....3.079" (78.2mm)	
PIONEER NO. DA-35 CRANK BORE.....1.18" (30mm) LARGE PULLEY DIAMETER6.46" (164mm) SMALL PULLEY DIAMETER.....6.06" (154mm) WEIGHT.....4.51 Lbs. OVERALL WIDTH.....2.13" (54mm)	
PIONEER NO. DA-40 CRANK BORE.....1.06" (27.02mm) LARGE PULLEY DIAMETER5.43" (138mm) SMALL PULLEY DIAMETER.....4.92" (125mm) NOSE DIAMETER.....1.57" (40mm) WEIGHT.....4.8 Lbs. OVERALL WIDTH.....1.97" (50mm)	
PIONEER NO. DA-41 CRANK BORE.....1.378" (35mm) LARGE PULLEY DIAMETER6.27" (159.3mm) SMALL PULLEY DIAMETER.....5.87" (149.1mm) NOSE DIAMETER.....1.890" (48mm) WEIGHT.....6.53 Lbs. OVERALL WIDTH.....2.331" (59.2mm)	
PIONEER NO. DA-63 CRANK BORE.....1.22" (31mm) LARGE PULLEY DIAMETER8.94" (227mm) SMALL PULLEY DIAMETER.....6.10" (155mm) NOSE DIAMETER.....1.77" (45mm) WEIGHT.....9.84 Lbs. OVERALL WIDTH.....3.90" (99mm)	

HD - HEAVY DUTY APPLICATION

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SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

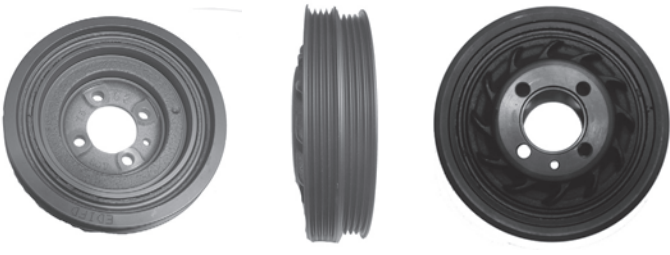
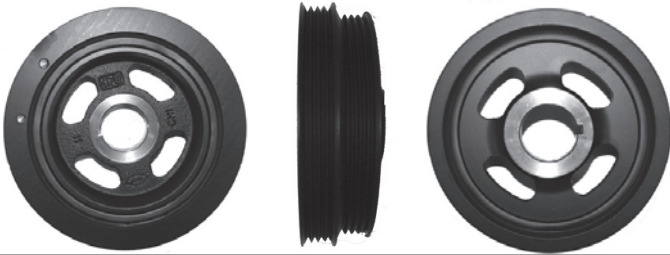
PIONEER NO. DA-64 CRANK BORE.....1.22" (31mm) PULLEY DIAMETER.....6.10" (155mm) NOSE DIAMETER.....1.77" (45mm) WEIGHT.....7.38 Lbs. OVERALL WIDTH.....2.93" (74.5mm)	
PIONEER NO. DA-65 CRANK BORE.....1.22" (31mm) NOSE DIAMETER.....1.77" (45mm) PULLEY DIAMETER.....6.10" (155mm) RING DIAMETER.....7.67" (195mm) WEIGHT.....6.59 Lbs. OVERALL WIDTH.....3.84" (97.5mm)	
PIONEER NO. DA-66 CRANK BORE.....1.22" (31mm) LARGE PULLEY DIAMETER.....6.65" (169mm) SMALL PULLEY DIAMETER.....6.10" (155mm) NOSE DIAMETER.....1.77" (45mm) WEIGHT.....10.58 Lbs. OVERALL WIDTH.....2.28" (58mm)	
PIONEER NO. DA-69 CRANK BORE.....0.984" (25mm) PULLEY DIAMETER.....5.120" (130mm) WEIGHT.....3.43 Lbs. OVERALL WIDTH.....2.165" (55mm)	
PIONEER NO. DA-70 CRANK BORE.....1.22" (31mm) LARGE PULLEY DIAMETER.....6.08" (154.5mm) SMALL PULLEY DIAMETER.....5.37" (136.5mm) NOSE DIAMETER.....1.77" (45mm) WEIGHT.....4.63 Lbs. OVERALL WIDTH.....2.28" (58mm)	
PIONEER NO. DA-80 CRANK BORE.....1.378" (35mm) LARGE PULLEY DIAMETER.....5.512" (140mm) WEIGHT.....5.40 Lbs. OVERALL WIDTH.....2.787" (70.8mm)	

HD - HEAVY DUTY APPLICATION

SFI - SFI RACE APPLICATION

SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

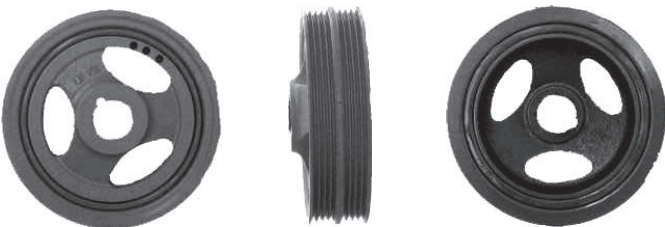
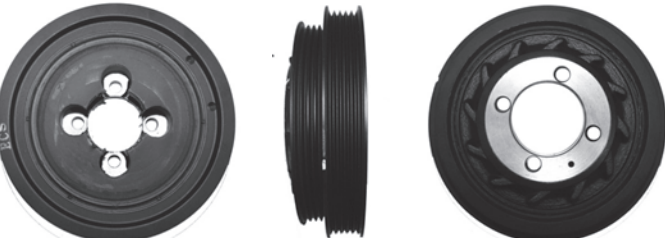
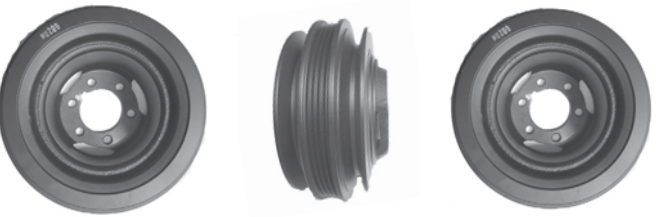
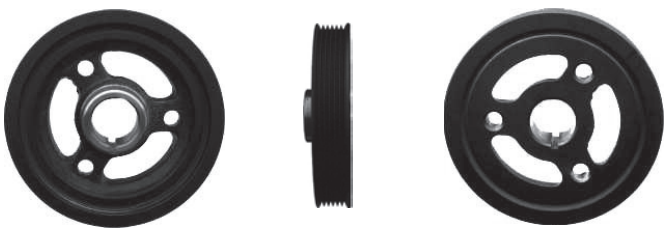
PIONEER NO. DA-92 CRANK BORE.....0.936" (23.77mm) PULLEY DIAMETER5.483" (139.27mm) WEIGHT.....3.47 Lbs. OVERALL WIDTH.....1.797" (45.64mm)	
PIONEER NO. DA-98 CRANK BORE.....1.581" (40.16mm) PULLEY DIAMETER6.354" (161.39mm) WEIGHT.....4.675 Lbs. OVERALL WIDTH.....1.79" (45.47mm)	
PIONEER NO. DA-110 CRANK BORE.....1.585" (40.26mm) PULLEY DIAMETER6.273" (159.33mm) WEIGHT.....4.665 Lbs. OVERALL WIDTH.....1.795" (45.59mm)	
PIONEER NO. DA-111 CRANK BORE.....1.433" (36.40mm) PULLEY DIAMETER5.278" (134.06mm) WEIGHT.....3.555 Lbs. OVERALL WIDTH.....2.028" (51.51mm)	
PIONEER NO. DA-112 CRANK BORE.....1.173" (29.79mm) PULLEY DIAMETER5.665" (143.90mm) WEIGHT.....3.82 Lbs. OVERALL WIDTH.....1.75" (44.45mm)	
PIONEER NO. DA-113 CRANK BORE.....1.476" (37.49mm) PULLEY DIAMETER5.844" (148.44mm) WEIGHT.....4.065 Lbs. OVERALL WIDTH.....1.638" (41.61mm)	

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HARMONIC BALANCER ILLUSTRATIONS

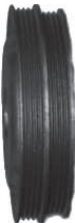
PIONEER NO. DA-115 CRANK BORE.....0.94" (24mm) PULLEY DIAMETER.....5.43" (138mm) WEIGHT.....3.28 Lbs. OVERALL WIDTH.....1.46" (46mm)	
PIONEER NO. DA-122 CRANK BORE.....1.60" (40.51mm) PULLEY DIAMETER.....6.09" (154.71mm) WEIGHT.....5.47 Lbs. OVERALL WIDTH.....1.83" (138.94mm)	
PIONEER NO. DA-123 CRANK BORE.....1.37" (34.80mm) PULLEY DIAMETER.....5.738" (145.75mm) WEIGHT.....6.22 Lbs. OVERALL WIDTH.....2.8" (71.12mm)	
PIONEER NO. DA-150 CRANK BORE.....1.26" (32mm) PULLEY DIAMETER.....5.91" (150mm) WEIGHT.....2.66 Lbs. OVERALL WIDTH.....1.40" (35.5mm)	
PIONEER NO. DA-151 CRANK BORE.....1.24" (31.62mm) PULLEY DIAMETER.....5.98" (152mm) NOSE DIAMETER.....1.76" (44.83mm) WEIGHT.....3.97 Lbs. OVERALL WIDTH.....1.46" (37mm) 5 POLLY VEES	
PIONEER NO. DA-152 CRANK BORE.....1.26" (32mm) PULLEY DIAMETER.....5.91" (150mm) WEIGHT.....2.66 Lbs. OVERALL WIDTH.....1.40" (35.5mm)	

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HARMONIC BALANCER ILLUSTRATIONS

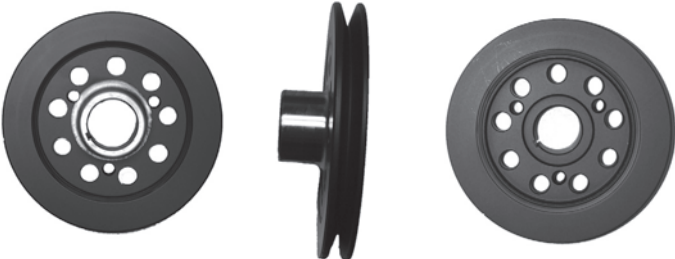
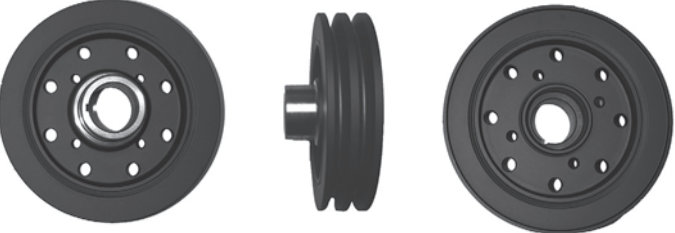
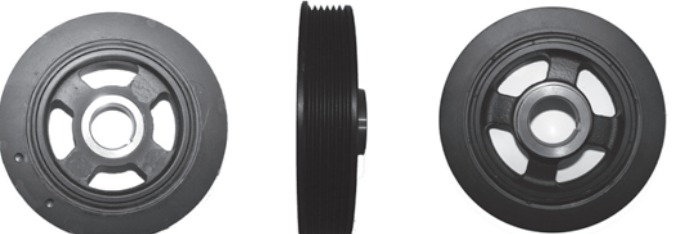
PIONEER NO. DA-153 CRANK BORE.....00" PULLEY DIAMETER00" WEIGHT.....00 Lbs. OVERALL WIDTH.....00"	 
PIONEER NO. DA-160 CRANK BORE.....1.59" (40.5mm) LARGE PULLEY DIAMETER6.38" (162mm) SMALL PULLEY DIAMETER.....6.10" (155mm) WEIGHT.....4.51 Lbs. OVERALL WIDTH.....1.79" (45.5mm)	  
PIONEER NO. DA-161 CRANK BORE.....1.57" (40mm) LARGE PULLEY DIAMETER6.30" (160mm) SMALL PULLEY DIAMETER.....6.02" (153mm) WEIGHT.....4.30 Lbs. OVERALL WIDTH.....1.67" (42.5mm)	  
PIONEER NO. DA-162 CRANK BORE.....1.81" (30mm) LARGE PULLEY DIAMETER5.900" (150mm) SMALL PULLEY DIAMETER.....5.510" (140mm) WEIGHT.....4.71 Lbs. OVERALL WIDTH.....1.890" (48mm)	  
PIONEER NO. DA-180 CRANK BORE.....1.232" (31.30mm) PULLEY DIAMETER5.667" (143.94mm) WEIGHT.....5.515 Lbs. OVERALL WIDTH.....2.277" (57.83mm)	  
PIONEER NO. DA-185 CRANK BORE.....1.159" (29.44mm) PULLEY DIAMETER5.755" (146.18mm) WEIGHT.....4.705 Lbs. OVERALL WIDTH.....1.857" (47.17mm)	  

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HARMONIC BALANCER ILLUSTRATIONS

PIONEER NO. DA-200 CRANK BORE.....1.256" (31.9mm) PULLEY DIAMETER.....5.866" (149mm) NOSE DIAMETER.....1.750" (44.44mm) WEIGHT.....3.06 Lbs. OVERALL WIDTH.....1.776" (45.1mm)	
PIONEER NO. DA-201 CRANK BORE.....1.250" (31.74mm) PULLEY DIAMETER.....6.142" (156mm) NOSE DIAMETER.....1.750" (44.44mm) WEIGHT.....5.51 Lbs. OVERALL WIDTH.....1.248" (31.7mm)	
PIONEER NO. DA-202 CRANK BORE.....1.159" (29.44mm) LARGE PULLEY DIAMETER.....7.125" (181mm) SMALL PULLEY DIAMETER.....6.180" (157mm) WEIGHT.....5.29 Lbs. OVERALL WIDTH.....1.969" (50mm)	
PIONEER NO. DA-203 CRANK BORE.....0.862" (21.9mm) PULLEY DIAMETER.....7.618" (193.5mm) WEIGHT.....6.39 Lbs. OVERALL WIDTH.....2.087" (53mm)	
PIONEER NO. DA-204 CRANK BORE.....1.174" (29.74mm) PULLEY DIAMETER.....5.818" (147.78mm) NOSE DIAMETER.....1.771" (44.98mm) WEIGHT.....4.265 Lbs. OVERALL WIDTH.....1.472" (37.39mm)	
PIONEER NO. DA-205 CRANK BORE.....0.945" (24mm) PULLEY DIAMETER.....5.230" (133mm) WEIGHT.....4.85 Lbs. OVERALL WIDTH.....1.921" (48.8mm)	

HD - HEAVY DUTY APPLICATION

SFI - SFI RACE APPLICATION

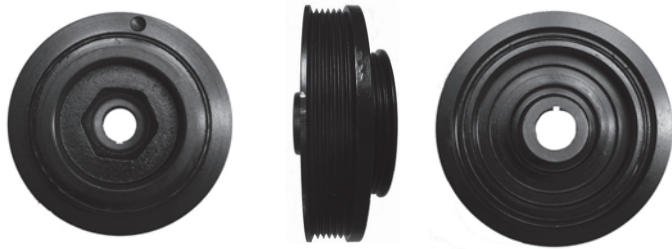
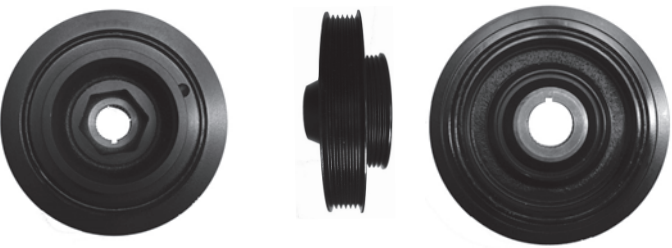
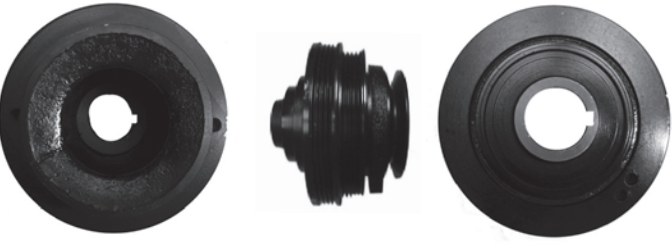
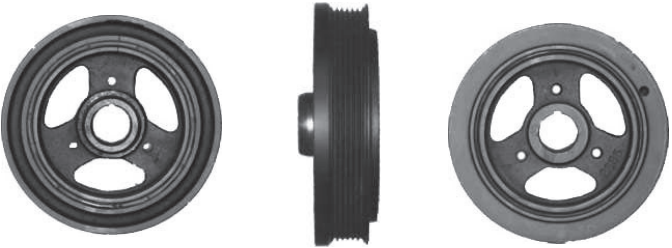
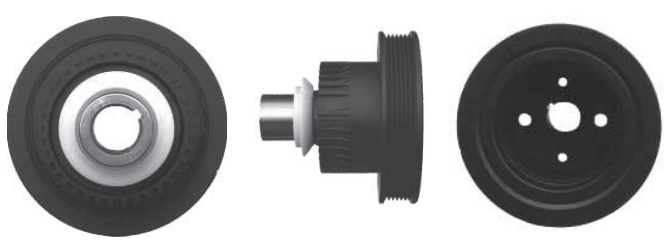
SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

PIONEER NO. DA-207 CRANK BORE.....00" PULLEY DIAMETER00" WEIGHT.....00 Lbs. OVERALL WIDTH.....00"	PHOTO & SPECS. NOT AVAILABLE AT PRESS TIME
PIONEER NO. DA-214 CRANK BORE.....2.039" (51.79mm) PULLEY DIAMETER6.051" (153.70mm) WEIGHT.....5.965 Lbs. OVERALL WIDTH.....2.213" (56.21mm)	
PIONEER NO. DA-215 CRANK BORE.....2.041" (51.84mm) PULLEY DIAMETER6.092" (154.74mm) WEIGHT.....10.46 Lbs. OVERALL WIDTH.....2.85" (72.39mm)	
PIONEER NO. DA-220 CRANK BORE.....1.209" (30.71mm) PULLEY DIAMETER7.09" (180.09mm) WEIGHT.....5.985 Lbs. OVERALL WIDTH.....2.533" (64.34mm)	
PIONEER NO. DA-222 CRANK BORE.....1.171" (29.74mm) PULLEY DIAMETER7.014" (178.16mm) WEIGHT.....5.955 Lbs. OVERALL WIDTH.....2.366" (60.10mm)	
PIONEER NO. DA-223 CRANK BORE.....1.142" (29.01mm) PULLEY DIAMETER7.835" (199.01mm) NOSE DIAMETER.....1.996" (50.70mm) WEIGHT.....6.375 Lbs. OVERALL WIDTH.....1.953" (49.61mm)	

HD - HEAVY DUTY APPLICATION SFI - SFI RACE APPLICATION SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

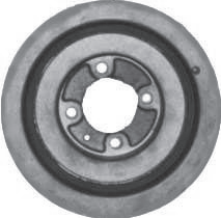
PIONEER NO. DA-224 CRANK BORE.....1.14" (28.96mm) PULLEY DIAMETER6.68" (169.67mm) WEIGHT.....6.19 Lbs. OVERALL WIDTH2.33" (59.06mm)	
PIONEER NO. DA-225 CRANK BORE.....1.28" (32.41mm) PULLEY DIAMETER6.95" (176.53mm) WEIGHT.....6.06 Lbs. OVERALL WIDTH2.54" (64.62mm)	
PIONEER NO. DA-226 CRANK BORE.....1.26" (31.93mm) PULLEY DIAMETER5.82" (147.85mm) WEIGHT.....8.74 Lbs. OVERALL WIDTH4.93" (125.10mm)	
PIONEER NO. DA-240 CRANK BORE.....1.13" (28.8mm) PULLEY DIAMETER6.69" (170mm) NOSE DIAMETER1.77" (45mm) WEIGHT.....8.16 Lbs. OVERALL WIDTH2.14" (54.3mm)	
PIONEER NO. DA-242 CRANK BORE.....1.13" (28.8mm) PULLEY DIAMETER6.72" (170.7mm) NOSE DIAMETER1.77" (45mm) WEIGHT.....9.26 Lbs. OVERALL WIDTH1.87" (47.5mm)	
PIONEER NO. DA-244 CRANK BORE.....1.10" (27.9mm) PULLEY DIAMETER6.00" (152.4mm) NOSE DIAMETER1.77" (45mm) WEIGHT.....6.76 Lbs. OVERALL WIDTH5.37" (136.4mm)	

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HARMONIC BALANCER ILLUSTRATIONS

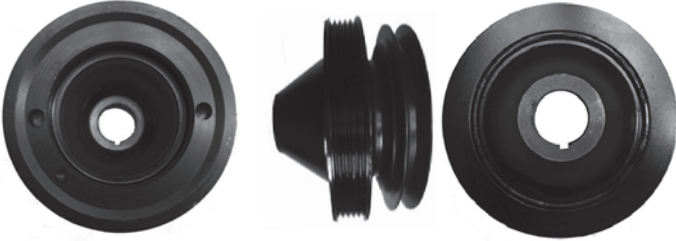
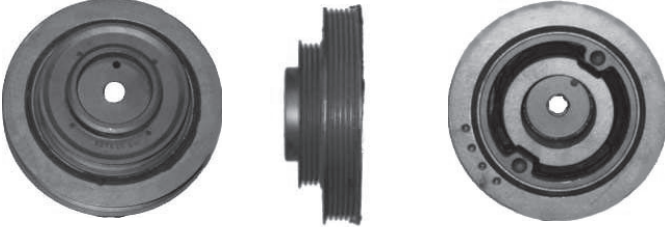
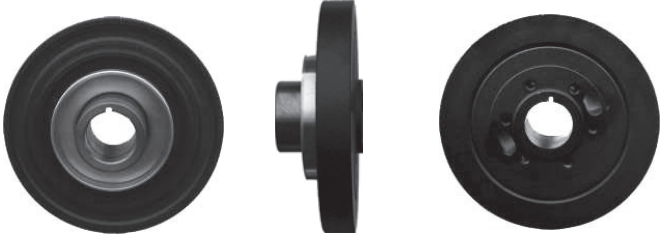
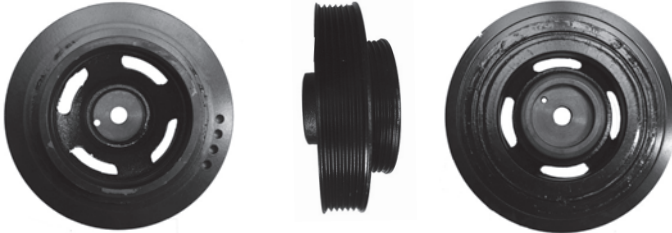
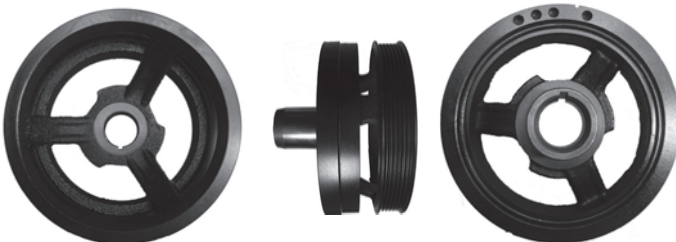
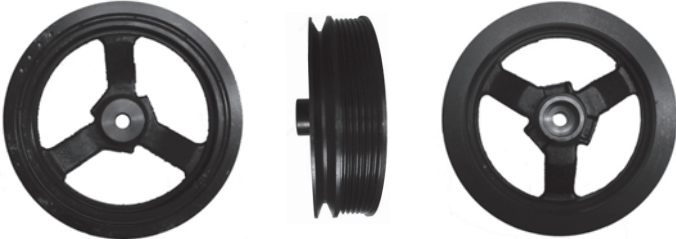
PIONEER NO. DA-250 CRANK BORE.....0.945" (24mm) LARGE PULLEY DIAMETER5.230" (133mm) WEIGHT.....5.73 Lbs. OVERALL WIDTH.....1.921" (48.8mm)	  
PIONEER NO. DA-258 CRANK BORE.....1.12" (28.55mm) PULLEY DIAMETER6.72" (170.63mm) NOSE DIAMETER.....1.78" (45.24mm) WEIGHT.....6.61 Lbs. OVERALL WIDTH.....1.70" (43.26mm)	  
PIONEER NO. DA-261 CRANK BORE.....1.59" (40.5mm) LARGE PULLEY DIAMETER6.14" (156mm) SMALL PULLEY DIAMETER.....5.20" (132mm) WEIGHT.....4.71 Lbs. OVERALL WIDTH.....1.28" (32.5mm)	  
PIONEER NO. DA-289 CRANK BORE.....1.37" (34.9mm) RING DIAMETER6.50" (165.1mm) NOSE DIAMETER.....1.88" (47.7mm) WEIGHT.....6.15 Lbs. OVERALL WIDTH.....3.01" (76.5mm)	  
PIONEER NO. DA-292 CRANK BORE.....1.24" (31.6mm) RING DIAMETER6.75" (171.5mm) NOSE DIAMETER.....1.76" (44.8mm) WEIGHT.....11.02 Lbs. OVERALL WIDTH.....2.35" (59.8mm)	  
PIONEER NO. DA-293 CRANK BORE.....1.238" (31.45mm) PULLEY DIAMETER6.724" (170.79mm) NOSE DIAMETER.....1.763" (44.78mm) WEIGHT.....12.82 Lbs. OVERALL WIDTH.....3.285" (83.44mm)	  

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HARMONIC BALANCER ILLUSTRATIONS

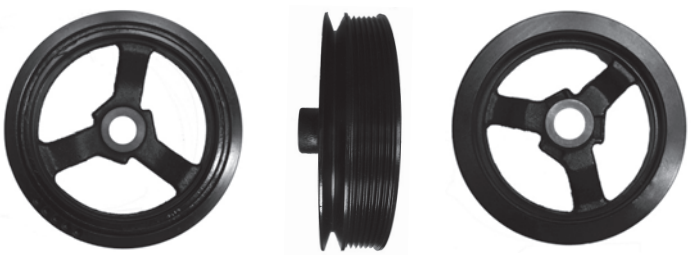
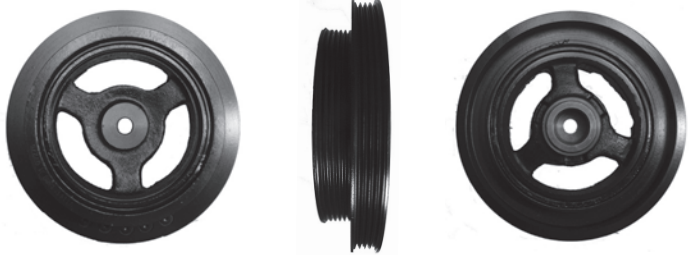
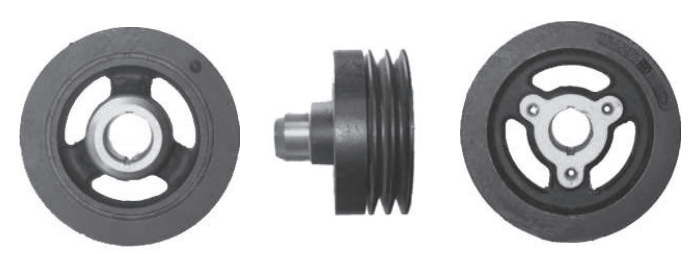
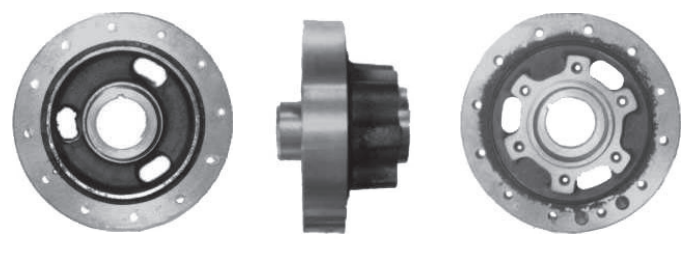
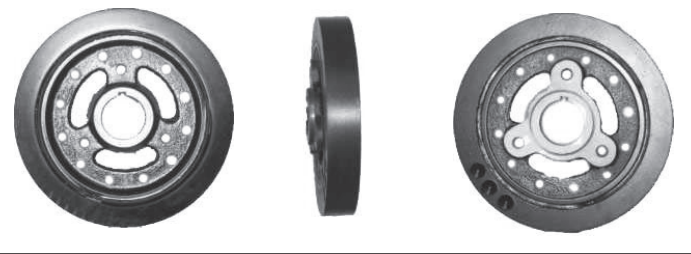
PIONEER NO. DA-300 CRANK BORE.....1.18" (29.97mm) PULLEY DIAMETER6.04" (153.44mm) WEIGHT.....8.23 Lbs. OVERALL WIDTH3.91" (99.29mm)	
PIONEER NO. DA-303 CRANK BORE.....0.59" (15mm) LARGE PULLEY DIAMETER6.14" (156mm) SMALL PULLEY DIAMETER.....4.13" (105mm) WEIGHT.....4.71 Lbs. OVERALL WIDTH2.09" (53mm)	
PIONEER NO. DA-318 CRANK BORE.....1.54" (39mm) RING DIAMETER7.24" (184mm) NOSE DIAMETER2.18" (55.4mm) WEIGHT.....7.72 Lbs. OVERALL WIDTH2.44" (62mm)	
PIONEER NO. DA-319 CRANK BORE.....2.04" (51.79mm) PULLEY DIAMETER7.94" (201.57mm) WEIGHT.....8.63 Lbs. OVERALL WIDTH2.28" (57.79mm)	
PIONEER NO. DA-321 CRANK BORE.....1.33" (33.68mm) PULLEY DIAMETER7.20" (182.93mm) NOSE DIAMETER1.82" (46.20mm) WEIGHT.....9.49 Lbs. OVERALL WIDTH5.23" (132.92mm)	
PIONEER NO. DA-322 CRANK BORE.....1.10" (28.04mm) PULLEY DIAMETER7.74" (196.52mm) NOSE DIAMETER1.47" (37.34mm) WEIGHT.....6.18 Lbs. OVERALL WIDTH2.47" (62.61mm)	

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HARMONIC BALANCER ILLUSTRATIONS

PIONEER NO. DA-323 CRANK BORE.....00" PULLEY DIAMETER00" WEIGHT.....00 Lbs. OVERALL WIDTH.....00"	
PIONEER NO. DA-324 CRANK BORE.....00" PULLEY DIAMETER00" WEIGHT.....00 Lbs. OVERALL WIDTH.....00"	
PIONEER NO. DA-325 CRANK BORE.....00" PULLEY DIAMETER00" WEIGHT.....00 Lbs. OVERALL WIDTH.....00"	
PIONEER NO. DA-330 CRANK BORE.....1.37" (34.92mm) RING DIAMETER6.93" (176mm) NOSE DIAMETER.....2.38" (60.37mm) WEIGHT.....17.64 Lbs. OVERALL WIDTH.....5.39" (137mm)	
PIONEER NO. DA-366 CRANK BORE.....1.60" (40.6mm) RING DIAMETER7.05" (179mm) NOSE DIAMETER.....2.33" (59.28mm) WEIGHT.....12.78 Lbs. OVERALL WIDTH.....4.31" (109.5mm)	
PIONEER NO. DA-390 CRANK BORE.....1.37" (34.9mm) RING DIAMETER7.01" (178mm) WEIGHT.....7.00 Lbs. OVERALL WIDTH.....1.54" (39mm)	

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HARMONIC BALANCER ILLUSTRATIONS

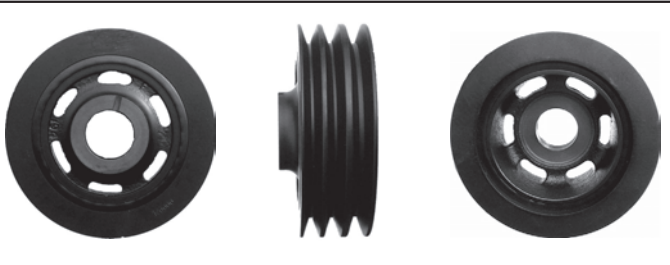
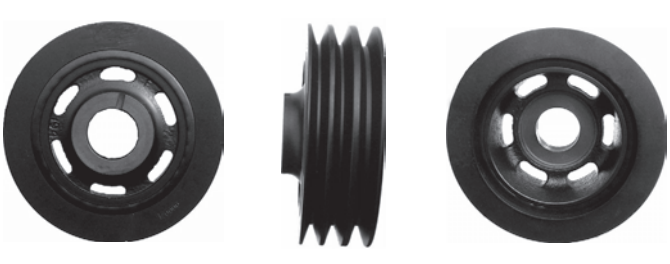
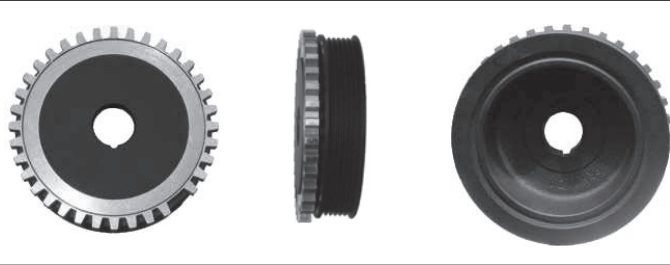
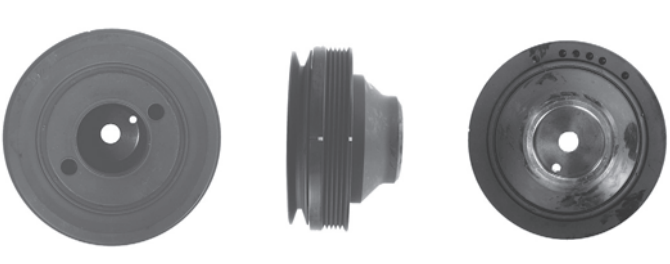
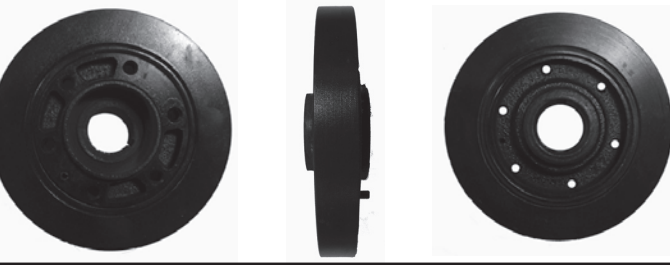
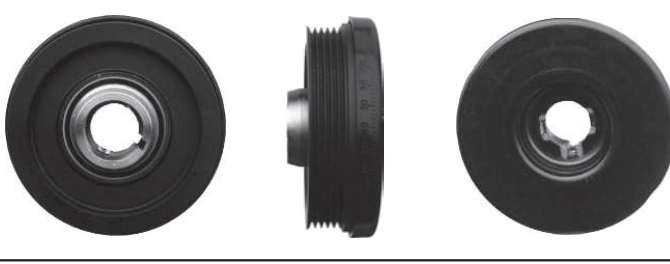
PIONEER NO. DA-396 CRANK BORE.....1.60" (40.58mm) RING DIAMETER6.99" (177.65mm) NOSE DIAMETER2.33" (59.28mm) WEIGHT.....10.8 Lbs. OVERALL WIDTH2.69" (68.2mm)	
PIONEER NO. DA-400 CRANK BORE.....1.24" (31.6mm) RING DIAMETER7.99" (203mm) NOSE DIAMETER1.88" (47.7mm) WEIGHT.....10.77 Lbs. OVERALL WIDTH2.34" (59.5mm)	
PIONEER NO. DA-400-HD CRANK BORE.....1.24" (31.6mm) RING DIAMETER7.99" (203mm) NOSE DIAMETER1.88" (47.7mm) WEIGHT.....10.77 Lbs. OVERALL WIDTH2.34" (59.5mm)	
PIONEER NO. DA-427 CRANK BORE.....1.598" (40.6mm) NOSE DIAMETER2.335" (59.3mm) RING DIAMETER8.00" (203.2mm) WEIGHT.....13.91 Lbs. OVERALL WIDTH2.685" (68.2mm)	
PIONEER NO. DA-427-HD CRANK BORE.....1.598" (40.6mm) NOSE DIAMETER2.335" (59.3mm) RING DIAMETER8.00" (203.2mm) WEIGHT.....13.91 Lbs. OVERALL WIDTH2.685" (68.2mm)	
PIONEER NO. DA-440 CRANK BORE.....1.530" (38.86mm) NOSE DIAMETER2.190" (55.6mm) RING DIAMETER7.00" (177.8mm) WEIGHT.....7.36 Lbs. OVERALL WIDTH1.811" (46mm)	

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HARMONIC BALANCER ILLUSTRATIONS

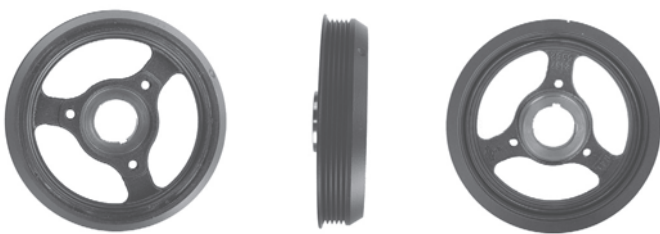
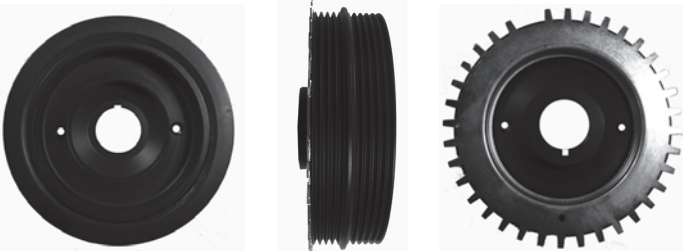
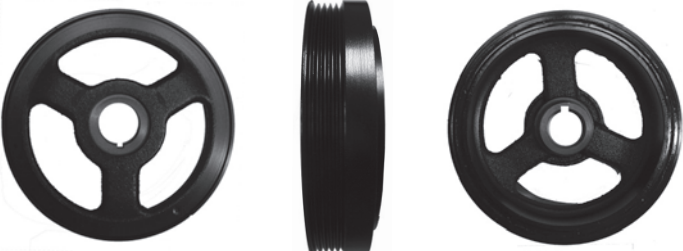
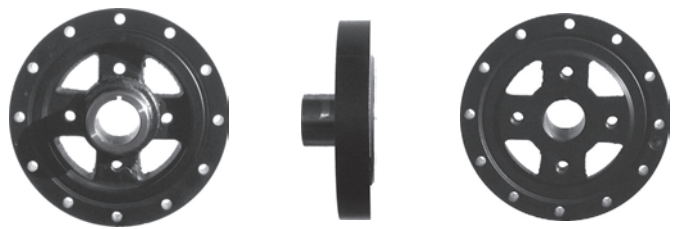
PIONEER NO. DA-740 CRANK BORE.....1.40" (35.5mm) PULLEY DIAMETER6.16" (156.55mm) NOSE DIAMETER.....2.25" (57.2mm) WEIGHT.....5.74 Lbs. OVERALL WIDTH.....2.22" (56.5mm)	
PIONEER NO. DA-940 CRANK BORE.....1.40" (35.5mm) PULLEY DIAMETER6.16" (156.55mm) NOSE DIAMETER.....2.25" (57.2mm) WEIGHT.....5.74 Lbs. OVERALL WIDTH.....2.22" (56.5mm)	
PIONEER NO. DA-1160 CRANK BORE.....1.10" (28.02mm) PULLEY DIAMETER5.44" (138.23mm) EXCITOR DIAMETER5.68" (144.24mm) WEIGHT.....3.57 Lbs. OVERALL WIDTH.....1.65" (42mm) 5 POLY VEES	
PIONEER NO. DA-1260 LARGE PULLEY DIAMETER5.94" (146mm) SMALL PULLEY DIAMETER.....5.66" (143.37mm) WEIGHT.....9.29 Lbs. OVERALL WIDTH.....3.51" (89.13mm) 5 POLLY, 1 V-BELT	
PIONEER NO. DA-1300 CRANK BORE.....1.165" (29.59mm) PULLEY DIAMETER6.017" (152.83mm) WEIGHT.....4.485 Lbs. OVERALL WIDTH.....1.477" (37.52mm)	
PIONEER NO. DA-1401 CRANK BORE.....1.25" (31.82mm) PULLEY DIAMETER4.69" (119mm) NOSE DIAMETER.....1.77" (45mm) WEIGHT.....3.52 Lbs. OVERALL WIDTH.....1.30" (33mm)	

HD - HEAVY DUTY APPLICATION

SFI - SFI RACE APPLICATION

SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

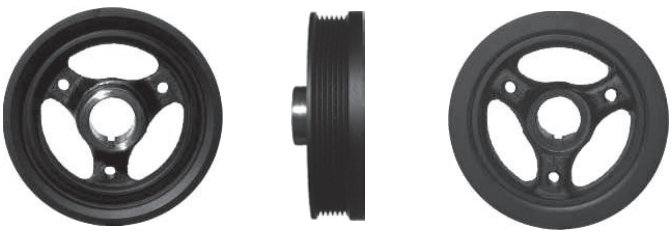
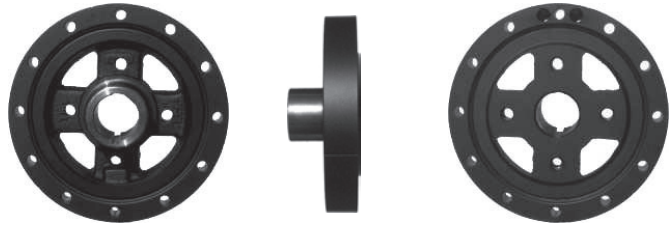
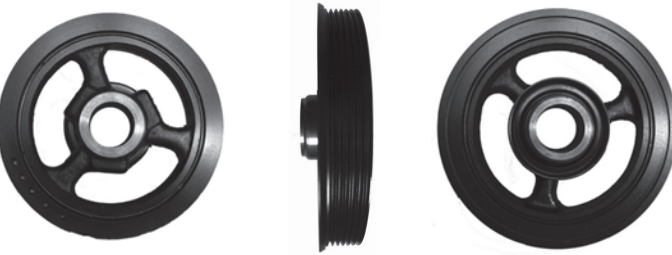
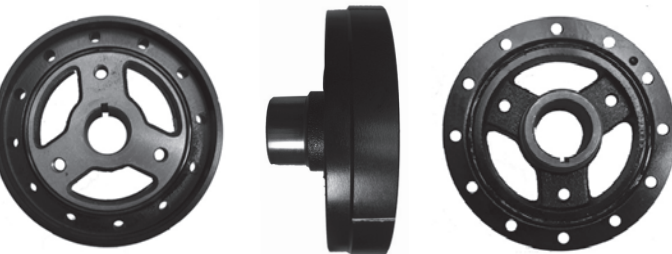
PIONEER NO. DA-1460 CRANK BORE.....1.30" (32.94mm) PULLEY DIAMETER.....6.44" (162.5mm) NOSE DIAMETER.....1.99" (50.72mm) WEIGHT.....3.88 Lbs. OVERALL WIDTH.....1.64" (41.61mm)	
PIONEER NO. DA-1595 CRANK BORE......00" PULLEY DIAMETER......00" WEIGHT......00 Lbs. OVERALL WIDTH......00"	PHOTO & SPECS. NOT AVAILABLE AT PRESS TIME
PIONEER NO. DA-1605 CRANK BORE.....1.169" (29.69mm) PULLEY DIAMETER.....5.729" (145.52mm) WEIGHT.....4.99 Lbs. OVERALL WIDTH.....1.86" (47.24mm)	
PIONEER NO. DA-1606 CRANK BORE.....1.491" (37.87mm) PULLEY DIAMETER.....5.866" (149.00mm) WEIGHT.....4.255 Lbs. OVERALL WIDTH.....1.496" (38.00mm)	
PIONEER NO. DA-1700 CRANK BORE.....1.03" (26.21mm) PULLEY DIAMETER.....6.53" (165.91mm) NOSE DIAMETER.....1.55" (39.27mm) WEIGHT.....1.55 Lbs. OVERALL WIDTH.....1.77" (44.83mm)	
PIONEER NO. DA-1731 CRANK BORE.....1.24" (31.62mm) RING DIAMETER.....6.41" (162.7mm) NOSE DIAMETER.....1.76" (44.83mm) WEIGHT.....5.80 Lbs. OVERALL WIDTH.....2.29" (58.1mm)	

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HARMONIC BALANCER ILLUSTRATIONS

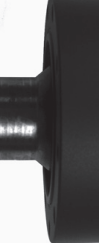
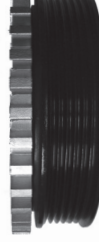
PIONEER NO. DA-1732 CRANK BORE.....1.24" (31.62mm) PULLEY DIAMETER6.10" (155mm) NOSE DIAMETER.....1.76" (44.83mm) WEIGHT.....5.80 Lbs. OVERALL WIDTH.....1.71" (43.5mm) 5 POLY VEES	
PIONEER NO. DA-1733 CRANK BORE.....1.24" (31.62mm) RING DIAMETER6.41" (162.7mm) NOSE DIAMETER.....1.76" (44.83mm) WEIGHT.....6.17 Lbs. OVERALL WIDTH.....2.29" (58.1mm)	
PIONEER NO. DA-1735 CRANK BORE......00" PULLEY DIAMETER00" WEIGHT......00 Lbs. OVERALL WIDTH......00"	
PIONEER NO. DA-1736 CRANK BORE.....1.24" (31.50mm) PULLEY DIAMETER6.10" (154.97mm) NOSE DIAMETER.....1.77" (44.93mm) WEIGHT.....4.71 Lbs. OVERALL WIDTH.....2.76" (70.03mm)	
PIONEER NO. DA-1820 CRANK BORE.....1.25" (31.72mm) RING DIAMETER5.71" (145mm) NOSE DIAMETER.....1.87" (47.5mm) EXCITOR DIAMETER6.16" (156.5mm) WEIGHT.....6.84 Lbs. OVERALL WIDTH.....3.26" (82.7mm)	
PIONEER NO. DA-1821 CRANK BORE.....1.25" (31.74mm) RING DIAMETER5.60" (142.21mm) NOSE DIAMETER.....1.88" (47.67mm) WEIGHT.....6.13 Lbs. OVERALL WIDTH.....3.25" (82.65mm)	

HD - HEAVY DUTY APPLICATION

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SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

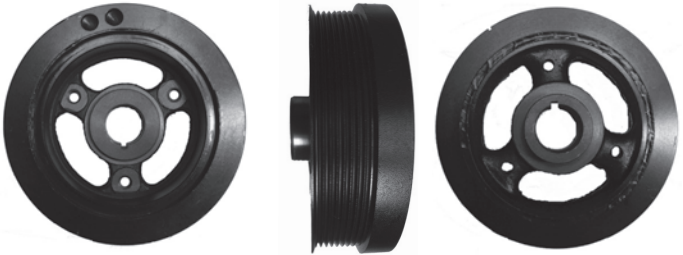
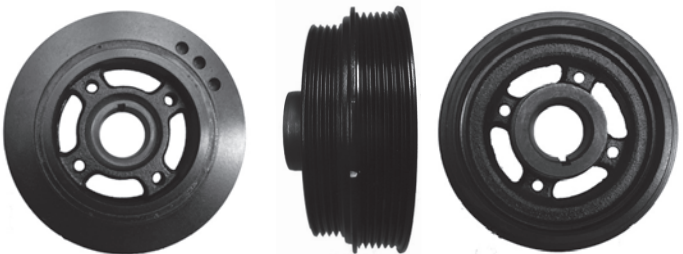
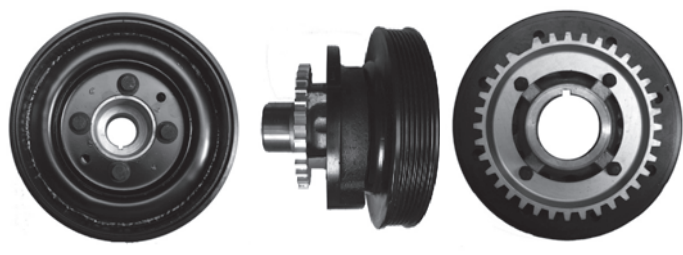
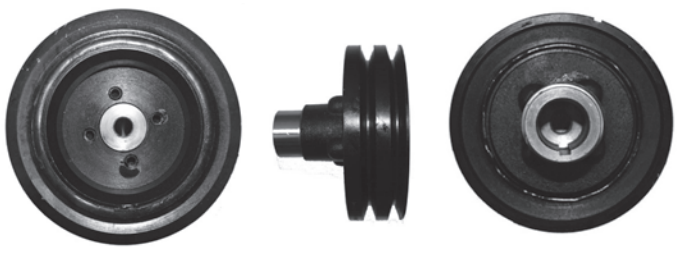
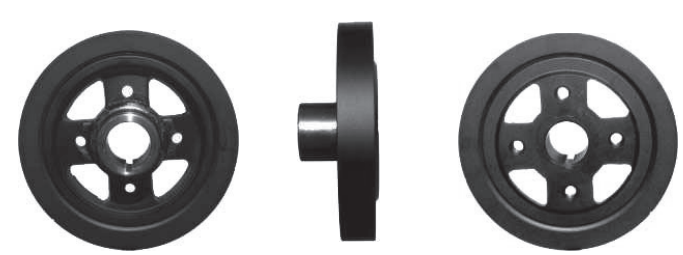
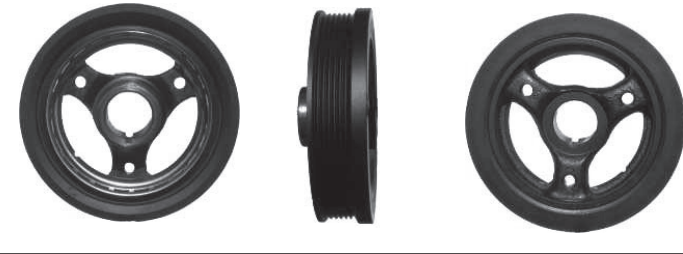
PIONEER NO. DA-1822 CRANK BORE.....1.245" (31.62mm) PULLEY DIAMETER6.511" (165.38mm) NOSE DIAMETER1.875" (47.63mm) WEIGHT.....4.965 Lbs. OVERALL WIDTH1.322" (33.58mm)	  
PIONEER NO. DA-1823 CRANK BORE.....1.274" (32.36mm) PULLEY DIAMETER6.06" (153.92mm) NOSE DIAMETER1.88" (47.75mm) WEIGHT.....5.59 Lbs. OVERALL WIDTH2.38" (60.45mm)	  
PIONEER NO. DA-1824 CRANK BORE.....1.244" (31.60mm) PULLEY DIAMETER5.582" (141.78mm) NOSE DIAMETER1.876" (47.65mm) WEIGHT.....6.06 Lbs. OVERALL WIDTH3.272" (83.11mm)	  
PIONEER NO. DA-1825 CRANK BORE.....1.26" (32.05mm) PULLEY DIAMETER6.36" (161.47mm) NOSE DIAMETER1.89" (48.06mm) WEIGHT.....5.08 Lbs. OVERALL WIDTH2.39" (60.76mm)	  
PIONEER NO. DA-1826 CRANK BORE.....1.235" (31.37mm) PULLEY DIAMETER6.883" (174.83mm) NOSE DIAMETER1.879" (47.73mm) WEIGHT.....5.965 Lbs. OVERALL WIDTH1.718" (43.64mm)	  
PIONEER NO. DA-1827 CRANK BORE.....1.10" (27.86mm) PULLEY DIAMETER5.68" (144.30mm) WEIGHT.....6.59 Lbs. OVERALL WIDTH1.68" (42.75mm)	  

HD - HEAVY DUTY APPLICATION

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SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

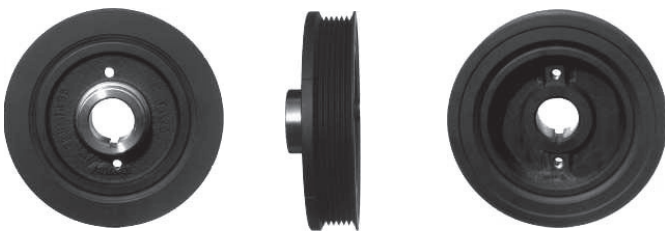
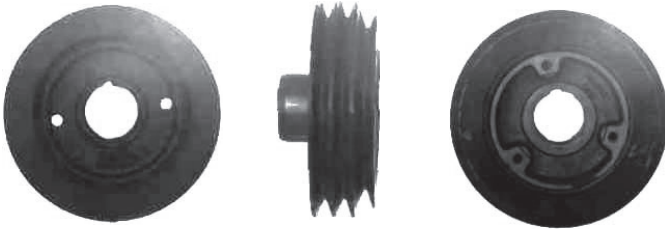
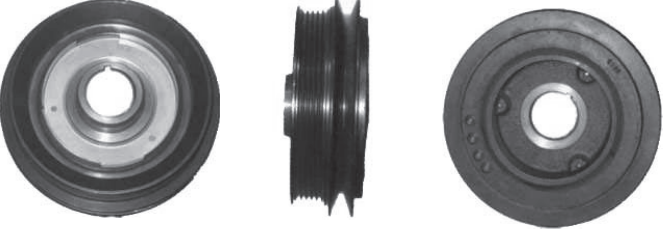
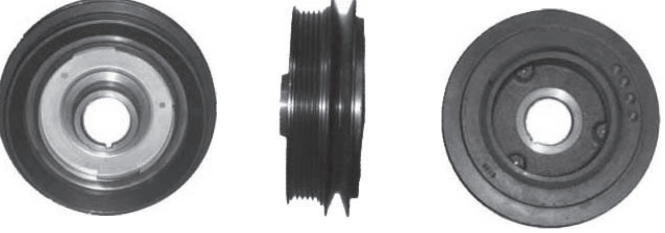
PIONEER NO. DA-1828 CRANK BORE.....1.26" (31.88mm) PULLEY DIAMETER6.95" (176.40mm) NOSE DIAMETER1.88" (47.73mm) WEIGHT.....9.68 Lbs. OVERALL WIDTH.....2.61" (66.17mm)	
PIONEER NO. DA-1829 CRANK BORE.....1.19" (30.33mm) PULLEY DIAMETER5.68" (144.17mm) NOSE DIAMETER1.88" (47.70mm) WEIGHT.....5.87 Lbs. OVERALL WIDTH.....2.55" (64.85mm)	
PIONEER NO. DA-1830 CRANK BORE......00" PULLEY DIAMETER00" WEIGHT......00 Lbs. OVERALL WIDTH......00"	
PIONEER NO. DA-1831 CRANK BORE.....1.18" (29.92mm) PULLEY DIAMETER5.99" (152.07mm) NOSE DIAMETER1.65" (41.96mm) WEIGHT.....7.13 Lbs. OVERALL WIDTH.....4.30" (109.19mm)	
PIONEER NO. DA-1890 CRANK BORE.....1.24" (31.62mm) RING DIAMETER6.41" (162.7mm) NOSE DIAMETER1.76" (44.83mm) WEIGHT.....5.51 Lbs. OVERALL WIDTH.....2.29" (58.1mm)	
PIONEER NO. DA-1893 CRANK BORE.....1.24" (31.62mm) PULLEY DIAMETER6.09" (155mm) NOSE DIAMETER1.76" (44.83mm) WEIGHT.....4.82 Lbs. OVERALL WIDTH.....1.99" (43.5mm)	

HD - HEAVY DUTY APPLICATION

SFI - SFI RACE APPLICATION

SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

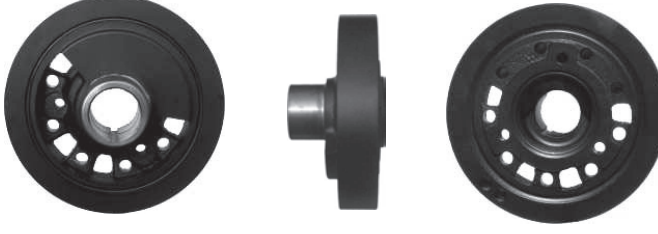
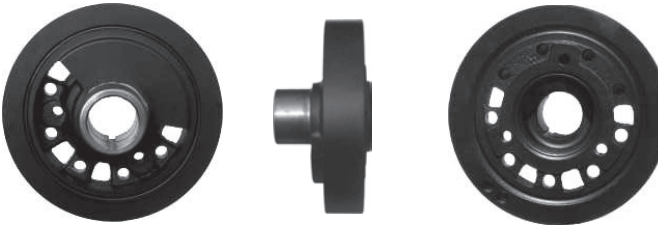
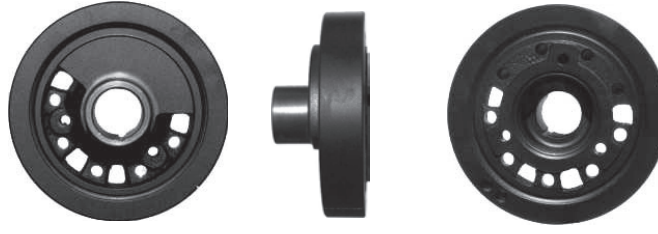
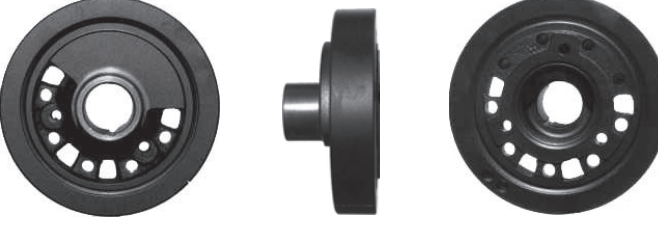
PIONEER NO. DA-1950 CRANK BORE.....1.22" (31mm) PULLEY DIAMETER.....6.14" (156mm) NOSE DIAMETER.....1.85" (47mm) WEIGHT.....6.39 Lbs. OVERALL WIDTH.....1.89" (48mm) 5 POLY VEES	
PIONEER NO. DA-2000 CRANK BORE.....1.38" (35mm) PULLEY DIAMETER.....5.91" (150mm) NOSE DIAMETER.....1.89" (48mm) WEIGHT.....8.82 Lbs. OVERALL WIDTH.....1.75" (44.5mm)	
PIONEER NO. DA-2001 CRANK BORE.....1.38" (35mm) LARGE PULLEY DIAMETER.....5.91" (150mm) NOSE DIAMETER.....1.89" (48mm) WEIGHT.....5.74 Lbs. OVERALL WIDTH.....2.66" (67.5mm)	
PIONEER NO. DA-2003 CRANK BORE.....1.38" (35mm) RING DIAMETER.....5.99" (152.1mm) NOSE DIAMETER.....1.89" (48mm) WEIGHT.....5.74 Lbs. OVERALL WIDTH.....1.86" (47.3mm)	
PIONEER NO. DA-2004 CRANK BORE.....1.38" (35mm) PULLEY DIAMETER.....6.11" (155.1mm) NOSE DIAMETER.....1.89" (48mm) WEIGHT.....5.94 Lbs. OVERALL WIDTH.....2.62" (66.5mm)	
PIONEER NO. DA-2005 CRANK BORE.....1.38" (35mm) PULLEY DIAMETER.....6.18" (157mm) NOSE DIAMETER.....1.89" (48mm) WEIGHT.....5.74 Lbs. OVERALL WIDTH.....2.15" (54.5mm)	

HD - HEAVY DUTY APPLICATION

SFI - SFI RACE APPLICATION

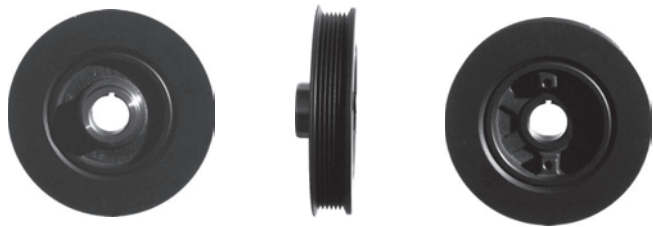
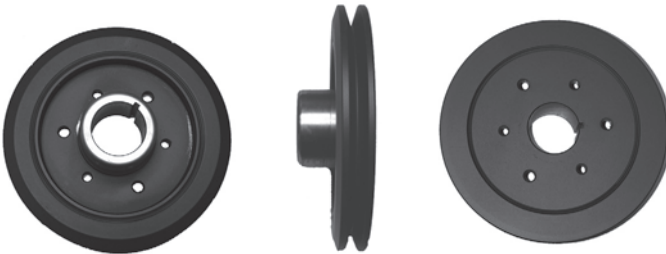
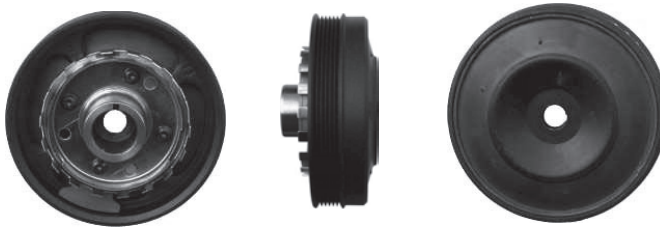
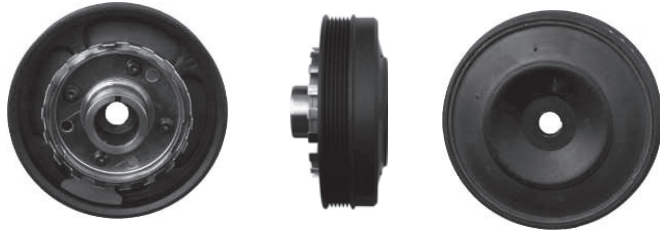
SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

PIONEER NO. DA-2006 CRANK BORE.....1.38" (35mm) PULLEY DIAMETER6.30" (160mm) NOSE DIAMETER.....2.05" (52mm) WEIGHT.....5.24 Lbs. OVERALL WIDTH.....1.44" (36.5mm)	
PIONEER NO. DA-2007 CRANK BORE.....1.38" (35mm) PULLEY DIAMETER6.30" (160mm) NOSE DIAMETER.....1.89" (48mm) WEIGHT.....5.94 Lbs. OVERALL WIDTH.....1.83" (46.5mm)	
PIONEER NO. DA-2008 CRANK BORE.....1.37" (34.9mm) RING DIAMETER6.50" (165.10mm) NOSE DIAMETER.....1.88" (47.7mm) WEIGHT.....8.38 Lbs. OVERALL WIDTH.....3.01" (76.5mm)	
PIONEER NO. DA-2008-HD CRANK BORE.....1.37" (34.9mm) RING DIAMETER6.50" (165.1mm) NOSE DIAMETER.....1.88" (47.7mm) WEIGHT.....8.38 Lbs. OVERALL WIDTH.....3.01" (76.5mm)	
PIONEER NO. DA-2009 CRANK BORE.....1.37" (34.9mm) NOSE DIAMETER.....1.88" (47.7mm) RING DIAMETER6.5" (165.1mm) WEIGHT.....8.38 Lbs. OVERALL WIDTH.....3.01" (76.5mm)	
PIONEER NO. DA-2009-HD CRANK BORE.....1.37" (34.9mm) NOSE DIAMETER.....1.88" (47.7mm) RING DIAMETER6.5" (165.1mm) WEIGHT.....8.38 Lbs. OVERALL WIDTH.....3.01" (76.5mm)	

HD - HEAVY DUTY APPLICATION SFI - SFI RACE APPLICATION SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

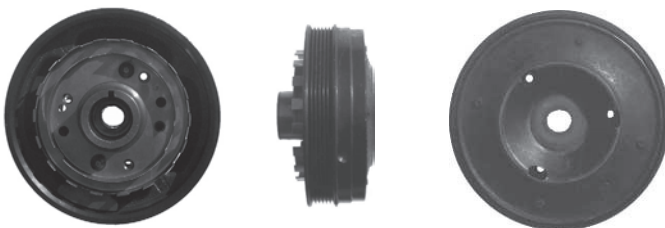
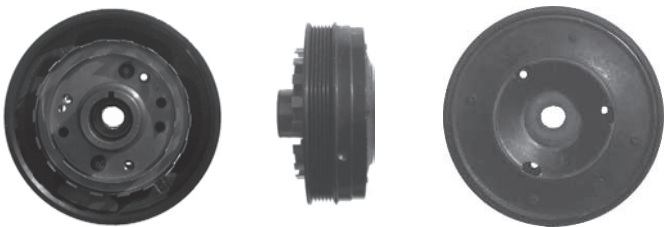
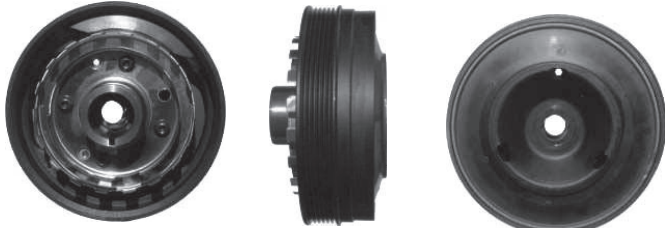
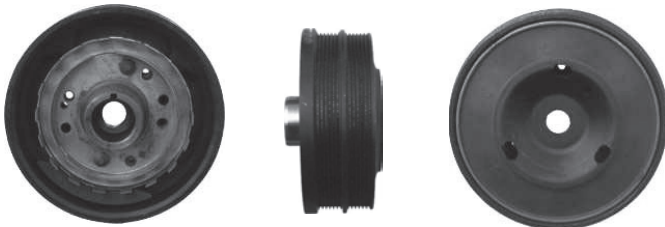
PIONEER NO. DA-2070 CRANK BORE.....1.25" (31.75mm) PULLEY DIAMETER.....6.97" (177mm) NOSE DIAMETER.....1.88" (47.75mm) WEIGHT.....8.16 Lbs. OVERALL WIDTH.....1.87" (47.5mm) 5 POLY VEES	
PIONEER NO. DA-2250 CRANK BORE.....1.528" (38.8mm) PULLEY DIAMETER.....6.990" (177.5mm) NOSE DIAMETER.....2.244" (57mm) WEIGHT.....5.29 Lbs. OVERALL WIDTH.....1.890" (48mm)	
PIONEER NO. DA-2311 CRANK BORE.....1.38" (34.95mm) PULLEY DIAMETER.....7.07" (179.5mm) NOSE DIAMETER.....1.94" (49.17mm) EXCITOR RING.....4.33" (110mm) WEIGHT.....7.72 Lbs. OVERALL WIDTH.....3.62" (92mm)	
PIONEER NO. DA-2312 CRANK BORE.....1.375" (34.93mm) PULLEY DIAMETER.....6.921" (179.8mm) NOSE DIAMETER.....1.933" (49.1mm) WEIGHT.....7.71 Lbs. OVERALL WIDTH.....3.366" (85.5mm)	
PIONEER NO. DA-2312-HD CRANK BORE.....1.375" (34.93mm) PULLEY DIAMETER.....6.921" (179.8mm) NOSE DIAMETER.....1.933" (49.1mm) WEIGHT.....7.71 Lbs. OVERALL WIDTH.....3.366" (85.5mm)	
PIONEER NO. DA-2313 CRANK BORE.....1.24" (31.6mm) RING DIAMETER.....6.13" (155.67mm) NOSE DIAMETER.....1.76" (44.8mm) WEIGHT.....5.29 Lbs. OVERALL WIDTH.....2.34" (59.5mm)	

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HARMONIC BALANCER ILLUSTRATIONS

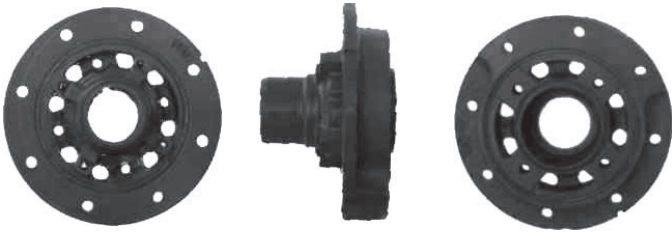
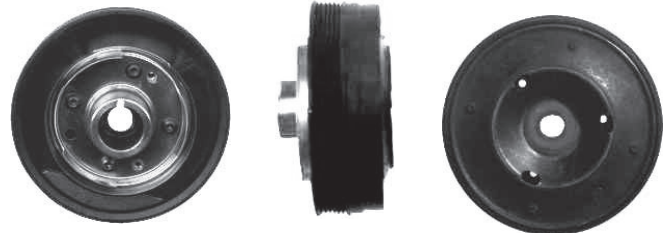
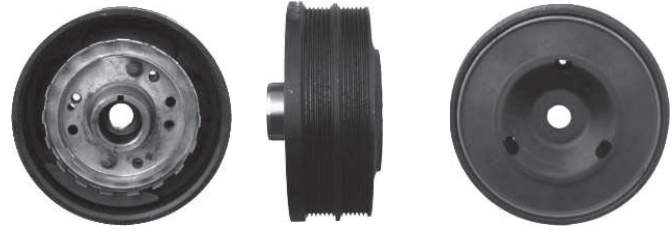
PIONEER NO. DA-2314 CRANK BORE.....1.373" (34.87mm) PULLEY DIAMETER6.921" (175.8mm) NOSE DIAMETER.....1.935" (49.15mm) WEIGHT.....7.72 Lbs. OVERALL WIDTH.....3.364" (85.45mm)	
PIONEER NO. DA-2314-HD CRANK BORE.....1.373" (34.87mm) PULLEY DIAMETER6.921" (175.8mm) NOSE DIAMETER.....1.935" (49.15mm) WEIGHT.....7.72 Lbs. OVERALL WIDTH.....3.364" (85.45mm)	
PIONEER NO. DA-2315 CRANK BORE.....1.373" (34.87mm) PULLEY DIAMETER6.921" (175.8mm) NOSE DIAMETER.....1.935" (49.15mm) WEIGHT.....7.72 Lbs. OVERALL WIDTH.....3.364" (85.45mm)	
PIONEER NO. DA-2315-HD CRANK BORE.....1.373" (34.87mm) PULLEY DIAMETER6.921" (175.8mm) NOSE DIAMETER.....1.935" (49.15mm) WEIGHT.....7.72 Lbs. OVERALL WIDTH.....3.364" (85.45mm)	
PIONEER NO. DA-2316 CRANK BORE.....1.38" (34.98mm) PULLEY DIAMETER7.07" (179.5mm) EXCITOR DIAMETER5.12" (130mm) NOSE DIAMETER.....1.94" (49.17mm) WEIGHT.....7.94 Lbs. OVERALL WIDTH.....3.62" (92mm) 5 POLY VEES	
PIONEER NO. DA-2318 CRANK BORE.....1.38" (34.98mm) PULLEY DIAMETER7.07" (179.5mm) EXCITOR DIAMETER5.12" (130mm) NOSE DIAMETER.....1.94" (49.17mm) WEIGHT.....8.82 Lbs. OVERALL WIDTH.....3.62" (92mm) 5 POLY VEES X 2	

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HARMONIC BALANCER ILLUSTRATIONS

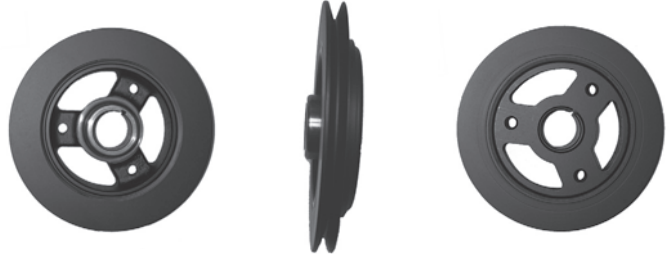
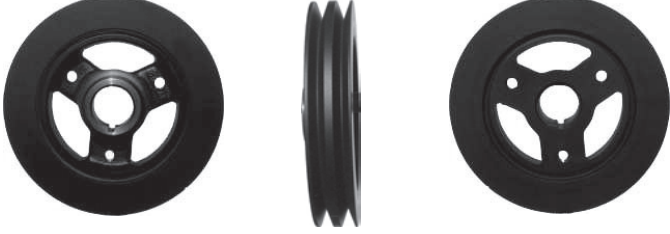
PIONEER NO. DA-2320 CRANK BORE.....1.37" (34.9mm) PULLEY DIAMETER.....6.08" (154.4mm) NOSE DIAMETER.....1.88" (47.7mm) WEIGHT.....4.41 Lbs. OVERALL WIDTH.....3.54" (90mm)	
PIONEER NO. DA-2321 CRANK BORE.....1.38" (34.98mm) PULLEY DIAMETER.....7.07" (179.5mm) NOSE DIAMETER.....1.94" (49.17mm) EXCITOR DIAMETER.....4.76" (121mm) WEIGHT.....7.94 Lbs. OVERALL WIDTH.....3.62" (92mm)	
PIONEER NO. DA-2322 CRANK BORE.....1.38" (34.98mm) PULLEY DIAMETER.....7.07" (179.5mm) NOSE DIAMETER.....1.94" (49.17mm) EXCITOR DIAMETER.....4.76" (121mm) WEIGHT.....7.72 Lbs. OVERALL WIDTH.....3.62" (92mm)	
PIONEER NO. DA-2323 CRANK BORE.....1.38" (34.98mm) PULLEY DIAMETER.....7.07" (179.5mm) NOSE DIAMETER.....1.94" (49.17mm) EXCITOR DIAMETER.....5.12" (130mm) WEIGHT.....7.72 Lbs. OVERALL WIDTH.....3.62" (92mm)	
PIONEER NO. DA-2324 CRANK BORE.....1.38" (34.98mm) PULLEY DIAMETER.....7.07" (179.5mm) NOSE DIAMETER.....1.94" (49.17mm) EXCITOR DIAMETER.....4.33" (110mm) WEIGHT.....7.65 Lbs. OVERALL WIDTH.....3.62" (92mm)	
PIONEER NO. DA-2325 CRANK BORE.....1.38" (34.98mm) PULLEY DIAMETER.....7.07" (179.5mm) NOSE DIAMETER.....1.94" (49.17mm) EXCITOR DIAMETER.....5.12" (130mm) WEIGHT.....8.20 Lbs. OVERALL WIDTH.....3.62" (92mm)	

HD - HEAVY DUTY APPLICATION

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HARMONIC BALANCER ILLUSTRATIONS

PIONEER NO. DA-2326 CRANK BORE.....1.374" (34.9mm) NOSE DIAMETER.....1.880" (47.75mm) RING DIAMETER.....6.00" (152.4mm) WEIGHT.....5.95 Lbs. OVERALL WIDTH.....3.591" (91.2mm)	
PIONEER NO. DA-2328 CRANK BORE.....1.375" (34.93mm) PULLEY DIAMETER.....7.007" (177.98mm) NOSE DIAMETER.....1.932" (49.07mm) WEIGHT.....8.93 Lbs. OVERALL WIDTH.....4.24" (107.70mm)	
PIONEER NO. DA-2332 CRANK BORE......00" PULLEY DIAMETER......00" NOSE DIAMETER......00" WEIGHT......00 Lbs. OVERALL WIDTH......00"	PHOTO & SPECS. NOT AVAILABLE AT PRESS TIME
PIONEER NO. DA-2500 CRANK BORE.....1.244" (31.6mm) PULLEY DIAMETER.....6.685" (169.8mm) NOSE DIAMETER.....1.764" (44.8mm) WEIGHT.....4.63 Lbs. OVERALL WIDTH.....1.311" (33.3mm)	
PIONEER NO. DA-2501 CRANK BORE.....1.24" (31.6mm) PULLEY DIAMETER.....6.76" (171.74mm) NOSE DIAMETER.....1.76" (44.8mm) WEIGHT.....6.31 Lbs. OVERALL WIDTH.....1.31" (33.3mm)	
PIONEER NO. DA-2502 CRANK BORE.....1.24" (31.6mm) PULLEY DIAMETER.....6.75" (171.5mm) NOSE DIAMETER.....1.76" (44.8mm) WEIGHT.....8.16 Lbs. OVERALL WIDTH.....1.71" (43.5mm)	

HD - HEAVY DUTY APPLICATION

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SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

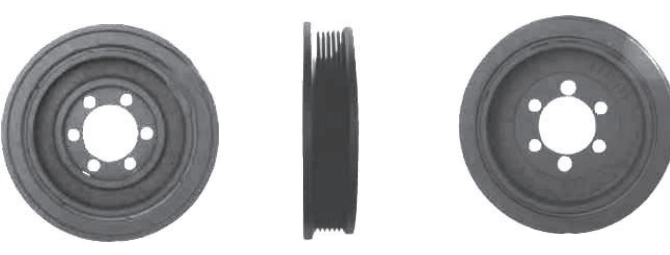
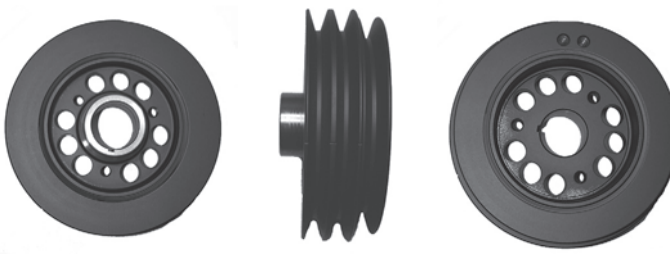
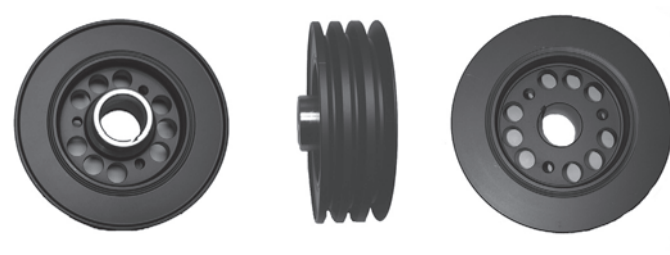
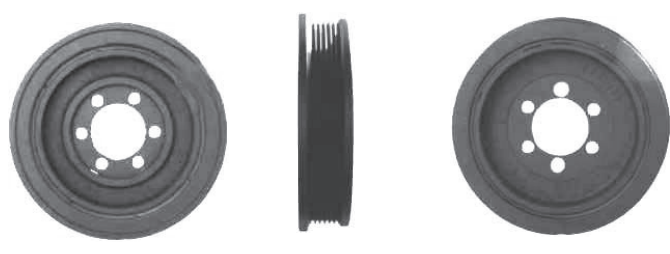
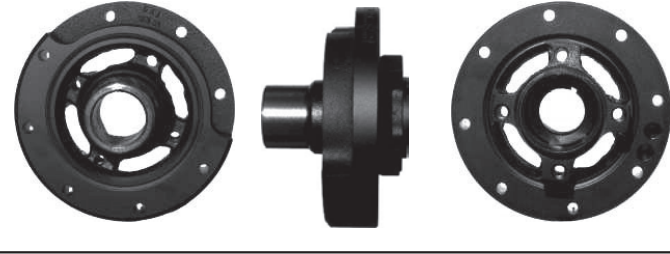
PIONEER NO. DA-2503 CRANK BORE.....1.24" (31.41mm) PULLEY DIAMETER.....6.75" (171.83mm) NOSE DIAMETER.....1.76" (44.81mm) WEIGHT.....7.77 Lbs. OVERALL WIDTH.....1.87" (47.37mm)	  
PIONEER NO. DA-2621 CRANK BORE.....1.24" (31.6mm) RING DIAMETER.....6.13" (155.67mm) NOSE DIAMETER.....1.76" (44.8mm) WEIGHT.....5.29 Lbs. OVERALL WIDTH.....2.34" (59.5mm)	  
PIONEER NO. DA-2622 CRANK BORE.....1.24" (31.50mm) PULLEY DIAMETER.....6.233" (158.32mm) NOSE DIAMETER.....1.764" (44.81mm) WEIGHT.....5.89 Lbs. OVERALL WIDTH.....2.822" (71.68mm)	  
PIONEER NO. DA-2801 CRANK BORE.....1.25" (31.75mm) PULLEY DIAMETER.....6.81" (173mm) NOSE DIAMETER.....1.75" (44.4mm) WEIGHT.....5.73 Lbs. OVERALL WIDTH.....1.79" (45.5mm) 5 POLY VEES	  
PIONEER NO. DA-2802 CRANK BORE.....1.246" (31.65mm) PULLEY DIAMETER.....6.807" (172.90mm) NOSE DIAMETER.....1.877" (47.68mm) WEIGHT.....7.03 Lbs. OVERALL WIDTH.....2.057" (52.25mm)	  
PIONEER NO. DA-3000 CRANK BORE.....1.39" (35.25mm) PULLEY DIAMETER.....6.91" (175.5mm) NOSE DIAMETER.....1.88" (47.67mm) WEIGHT.....9.48 Lbs. OVERALL WIDTH.....2.85" (72.5mm) 5 POLY VEES	  

HD - HEAVY DUTY APPLICATION

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HARMONIC BALANCER ILLUSTRATIONS

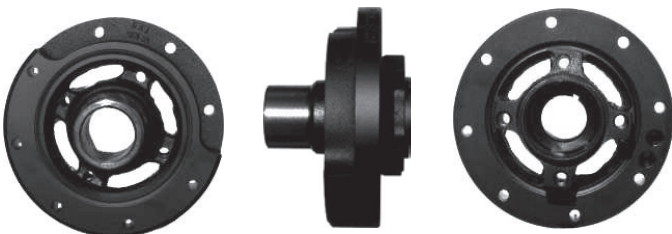
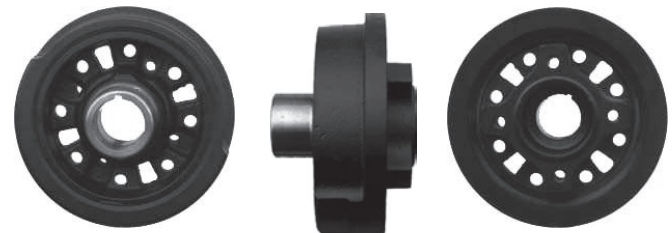
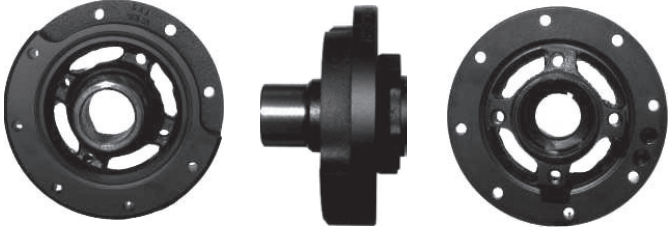
PIONEER NO. DA-3001 CRANK BORE.....1.65" (41.98mm) PULLEY DIAMETER6.53" (165.95mm) WEIGHT.....4.51 Lbs. OVERALL WIDTH.....1.38" (34.95mm)	
PIONEER NO. DA-3002 CRANK BORE.....1.374" (31.6mm) LARGE PULLEY DIAMETER6.710" (170mm) SMALL PULLEY DIAMETER.....6.300" (160mm) NOSE DIAMETER.....1.878" (47.7mm) WEIGHT.....9.37 Lbs. OVERALL WIDTH.....2.827" (71.8mm)	
PIONEER NO. DA-3003 CRANK BORE.....1.374" (34.9mm) LARGE PULLEY DIAMETER6.700" (170mm) NOSE DIAMETER.....1.878" (47.7mm) WEIGHT.....10.91 Lbs. OVERALL WIDTH.....2.681" (68.1mm)	
PIONEER NO. DA-3005 CRANK BORE.....1.65" (41.98mm) PULLEY DIAMETER6.53" (165.95mm) WEIGHT.....4.51 Lbs. OVERALL WIDTH.....1.38" (34.95mm)	
PIONEER NO. DA-3006 CRANK BORE.....1.387" (35.23mm) PULLEY DIAMETER6.571" (166.90mm) NOSE DIAMETER.....1.876" (47.65mm) WEIGHT.....11.89 Lbs. OVERALL WIDTH.....2.885" (72.52mm)	
PIONEER NO. DA-3021 CRANK BORE.....1.37" (34.9mm) RING DIAMETER6.41" (162.8mm) NOSE DIAMETER.....1.87" (47.6mm) WEIGHT.....9.04 Lbs. OVERALL WIDTH.....4.11" (104.5mm)	

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HARMONIC BALANCER ILLUSTRATIONS

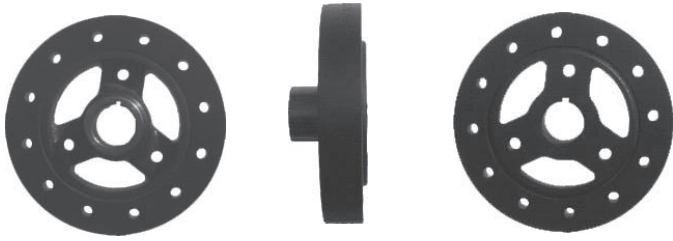
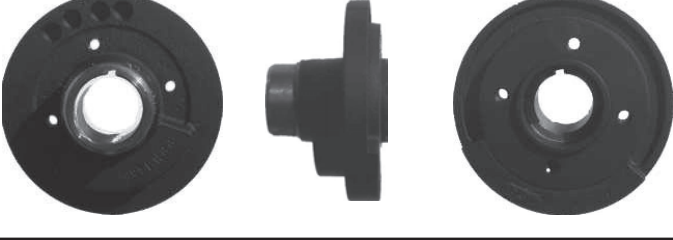
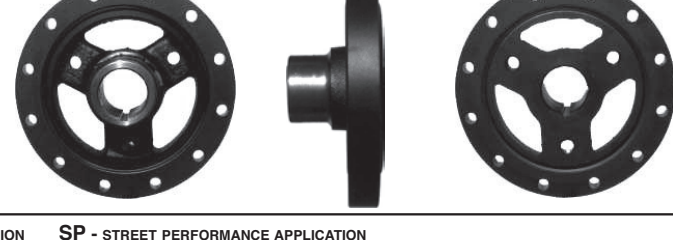
PIONEER NO. DA-3021-HD CRANK BORE.....1.37" (34.9mm) RING DIAMETER6.41" (162.8mm) NOSE DIAMETER1.87" (47.6mm) WEIGHT.....9.04 Lbs. OVERALL WIDTH4.11" (104.5mm)	
PIONEER NO. DA-3022 CRANK BORE.....1.37" (34.9mm) NOSE DIAMETER1.87" (47.6mm) RING DIAMETER6.51" (165.3mm) WEIGHT.....11.47 Lbs. OVERALL WIDTH4.11" (104.5mm)	
PIONEER NO. DA-3023 CRANK BORE.....1.37" (34.9mm) RING DIAMETER6.41" (162.8mm) NOSE DIAMETER1.87" (47.6mm) WEIGHT.....9.04 Lbs. OVERALL WIDTH4.11" (104.5mm)	
PIONEER NO. DA-3024 CRANK BORE.....1.34" (34mm) PULLEY DIAMETER6.40" (162.45mm) NOSE DIAMETER1.88" (47.70mm) WEIGHT.....10.66 Lbs. OVERALL WIDTH4.49" (114mm)	
PIONEER NO. DA-3026 CRANK BORE.....1.374" (34.9mm) NOSE DIAMETER1.890" (48mm) RING DIAMETER6.25" (158.75mm) WEIGHT.....7.39 Lbs. OVERALL WIDTH3.504" (89mm)	
PIONEER NO. DA-3051 CRANK BORE.....1.24" (31.6mm) RING DIAMETER6.74" (171.3mm) NOSE DIAMETER1.88" (47.7mm) WEIGHT.....8.10 Lbs. OVERALL WIDTH2.34" (59.5mm)	

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HARMONIC BALANCER ILLUSTRATIONS

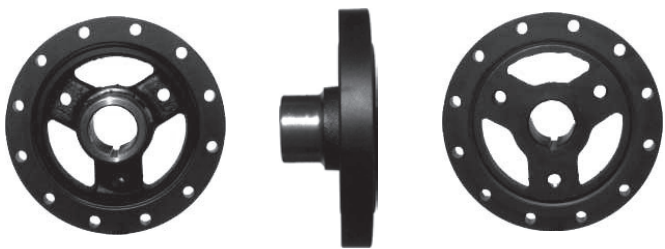
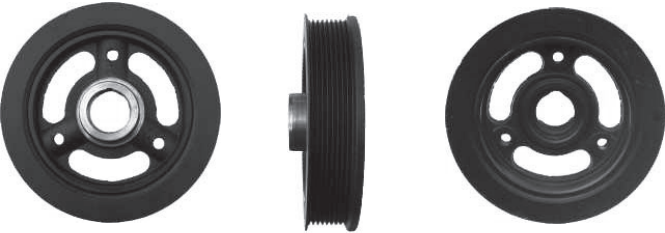
PIONEER NO. DA-3071 CRANK BORE.....1.24" (31.6mm) RING DIAMETER6.73" (171mm) NOSE DIAMETER.....1.88" (47.7mm) WEIGHT.....8.16 Lbs. OVERALL WIDTH.....2.34" (59.5mm)	
PIONEER NO. DA-3071-HD CRANK BORE.....1.24" (31.6mm) RING DIAMETER6.73" (171mm) NOSE DIAMETER.....1.88" (47.7mm) WEIGHT.....8.16 Lbs. OVERALL WIDTH.....2.34" (59.5mm)	
PIONEER NO. DA-3072 CRANK BORE.....1.50" (38.06mm) RING DIAMETER5.48" (139.2mm) NOSE DIAMETER.....2.00" (50.7mm) WEIGHT.....5.12 Lbs. OVERALL WIDTH.....3.20" (81.2mm)	
PIONEER NO. DA-3164 CRANK BORE.....1.260" (32mm) LARGE PULLEY DIAMETER5.670" (144mm) SMALL PULLEY DIAMETER.....5.200" (132mm) WEIGHT.....8.60 Lbs. OVERALL WIDTH.....3.689" (93.7mm)	
PIONEER NO. DA-3165 CRANK BORE.....1.260" (32mm) LARGE DIAMETER.....5.709" (145mm) WEIGHT.....6.81 Lbs. OVERALL WIDTH.....2.835" (72mm)	
PIONEER NO. DA-3270 CRANK BORE.....1.24" (31.6mm) RING DIAMETER6.12" (155.4mm) NOSE DIAMETER.....1.88" (47.7mm) WEIGHT.....4.63 Lbs. OVERALL WIDTH.....2.34" (59.5mm)	

HD - HEAVY DUTY APPLICATION

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HARMONIC BALANCER ILLUSTRATIONS

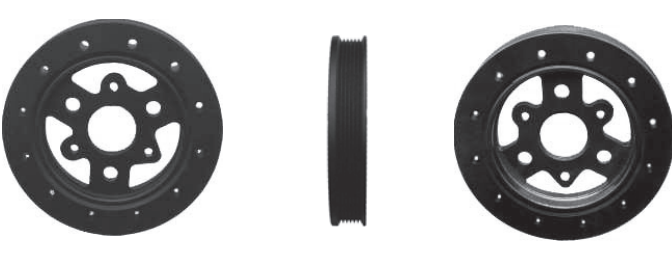
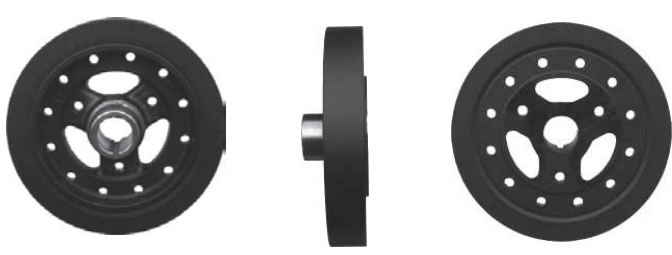
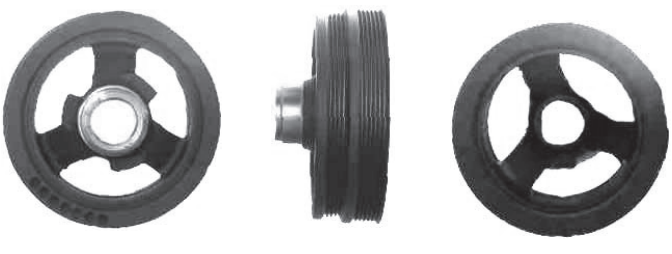
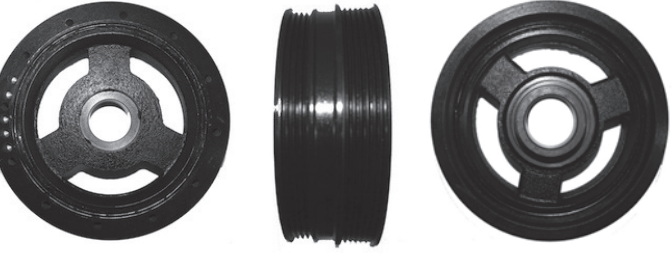
PIONEER NO. DA-3270-HD CRANK BORE.....1.24" (31.6mm) RING DIAMETER6.12" (155.4mm) NOSE DIAMETER1.88" (47.7mm) WEIGHT.....4.63 Lbs. OVERALL WIDTH2.34" (59.5mm)	
PIONEER NO. DA-3300 CRANK BORE.....1.25" (31.72mm) PULLEY DIAMETER6.81" (173mm) NOSE DIAMETER1.88" (47.7mm) WEIGHT.....6.55 Lbs. OVERALL WIDTH2.06" (52.3mm)	
PIONEER NO. DA-3301 CRANK BORE.....1.248" (31.7mm) PULLEY DIAMETER6.646" (168.8mm) NOSE DIAMETER1.880" (47.75mm) WEIGHT.....8.97 Lbs. OVERALL WIDTH2.303" (58.5mm)	
PIONEER NO. DA-3302 CRANK BORE.....1.248" (31.7mm) PULLEY DIAMETER6.646" (168.8mm) NOSE DIAMETER1.880" (47.75mm) WEIGHT.....7.60 Lbs. OVERALL WIDTH2.121" (53.87mm)	
PIONEER NO. DA-3502 CRANK BORE.....1.24" (31.6mm) RING DIAMETER7.99" (203mm) NOSE DIAMETER1.88" (47.7mm) WEIGHT.....11.02 Lbs. OVERALL WIDTH2.34" (59.5mm)	
PIONEER NO. DA-3502-HD CRANK BORE.....1.24" (31.6mm) RING DIAMETER7.99" (203mm) NOSE DIAMETER1.88" (47.7mm) WEIGHT.....11.02 Lbs. OVERALL WIDTH2.34" (59.5mm)	

HD - HEAVY DUTY APPLICATION

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HARMONIC BALANCER ILLUSTRATIONS

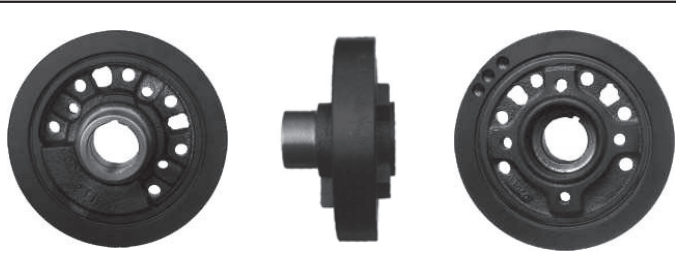
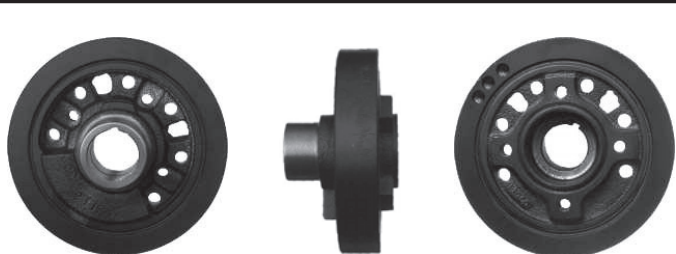
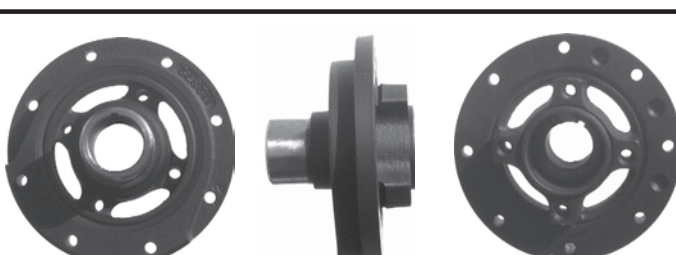
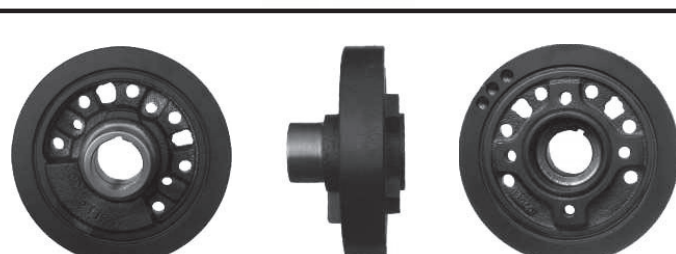
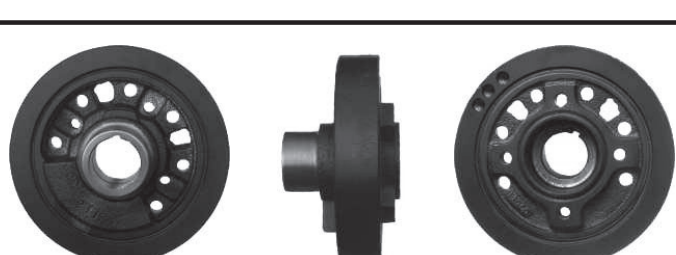
PIONEER NO. DA-3504 CRANK BORE.....1.24" (31.6mm) RING DIAMETER7.99" (203mm) NOSE DIAMETER1.88" (47.7mm) WEIGHT.....10.53 Lbs. OVERALL WIDTH.....2.34" (59.5mm)	
PIONEER NO. DA-3505 CRANK BORE.....1.63" (41.3mm) PULLEY DIAMETER7.52" (191mm) WEIGHT.....8.16 Lbs. OVERALL WIDTH.....1.34" (34.0mm) 5 POLY VEES	
PIONEER NO. DA-3506 CRANK BORE.....1.24" (31.6mm) RING DIAMETER7.99" (203mm) NOSE DIAMETER1.88" (47.7mm) WEIGHT.....10.14 Lbs. OVERALL WIDTH.....2.34" (59.5mm)	
PIONEER NO. DA-3507 CRANK BORE.....1.48" (37.6mm) NOSE DIAMETER2.13" (54.1mm) LARGE PULLEY DIAMETER7.52" (191mm) SMALL PULLEY DIAMETER7.24" (184mm) WEIGHT.....11.02 Lbs. OVERALL WIDTH.....3.66" (93mm) 5 POLY VEES 3 POLY VEES	
PIONEER NO. DA-3508 CRANK BORE.....1.46" (37.16mm) PULLEY DIAMETER7.50" (190.47mm) NOSE DIAMETER2.13" (54.10mm) WEIGHT.....10.33 Lbs. OVERALL WIDTH.....2.98" (75.59mm)	
PIONEER NO. DA-3510 CRANK BORE.....1.467" (37.26mm) PULLEY DIAMETER7.732" (196.39mm) NOSE DIAMETER2.133" (54.18mm) WEIGHT.....10.595 Lbs. OVERALL WIDTH.....4.388" (111.46mm)	

HD - HEAVY DUTY APPLICATION

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HARMONIC BALANCER ILLUSTRATIONS

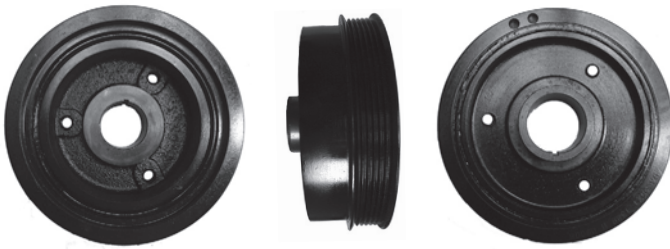
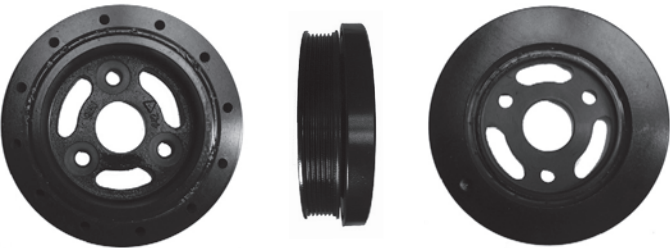
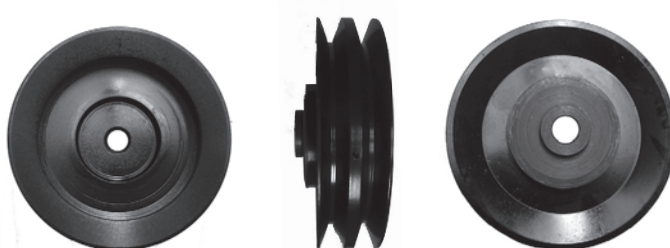
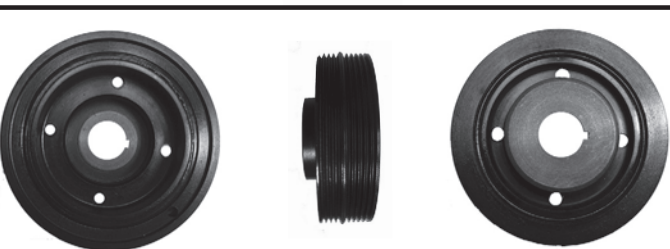
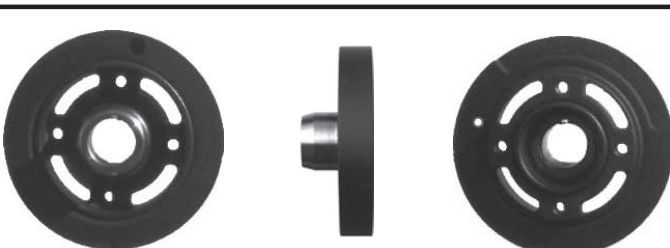
PIONEER NO. DA-3512 CRANK BORE.....1.37" (34.9mm) RING DIAMETER6.50" (165mm) NOSE DIAMETER1.88" (47.7mm) WEIGHT.....9.26 Lbs. OVERALL WIDTH3.39" (86.0mm)	
PIONEER NO. DA-3512-HD CRANK BORE.....1.37" (34.9mm) RING DIAMETER6.50" (165mm) NOSE DIAMETER1.88" (47.7mm) WEIGHT.....9.26 Lbs. OVERALL WIDTH3.39" (86mm)	
PIONEER NO. DA-3513 CRANK BORE.....1.37" (34.9mm) RING DIAMETER6.40" (162.5mm) NOSE DIAMETER1.87" (47.6mm) WEIGHT.....7.28 Lbs. OVERALL WIDTH4.11" (104.5mm)	
PIONEER NO. DA-3514 CRANK BORE.....1.37" (34.9mm) RING DIAMETER6.50" (165.1mm) NOSE DIAMETER1.88" (47.7mm) WEIGHT.....9.26 Lbs. OVERALL WIDTH3.51" (89.1mm)	
PIONEER NO. DA-3515 CRANK BORE.....1.37" (34.9mm) RING DIAMETER6.50" (165.1mm) NOSE DIAMETER1.88" (47.7mm) WEIGHT.....9.26 Lbs. OVERALL WIDTH3.51" (89.1mm)	
PIONEER NO. DA-3520 CRANK BORE.....1.62" (41.20mm) PULLEY DIAMETER7.02" (178.38mm) WEIGHT.....9.84 Lbs. OVERALL WIDTH2.18" (55.27mm)	

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HARMONIC BALANCER ILLUSTRATIONS

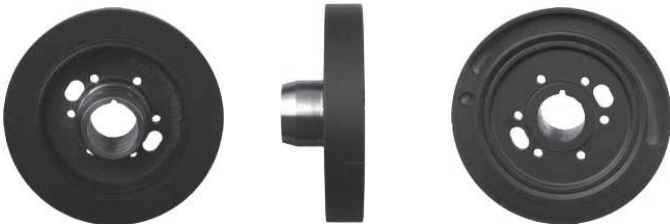
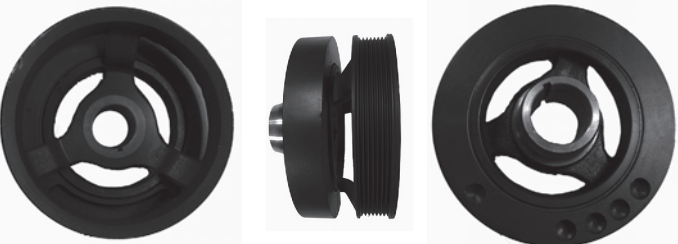
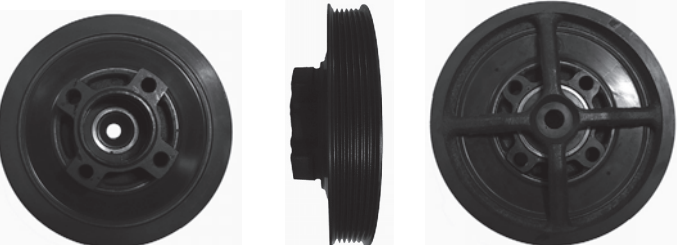
PIONEER NO. DA-3521 CRANK BORE.....1.49" (37.80mm) PULLEY DIAMETER7.14" (181.25mm) NOSE DIAMETER.....1.97" (49.91mm) WEIGHT.....10.71 Lbs. OVERALL WIDTH.....2.97" (75.36mm)	
PIONEER NO. DA-3522 CRANK BORE......00" (00mm) PULLEY DIAMETER00" (00mm) NOSE DIAMETER......00" (00mm) EXCITOR DIAMETER00" (00mm) WEIGHT......00 Lbs. OVERALL WIDTH......00" (00mm)	
PIONEER NO. DA-3523 CRANK BORE......00" (00mm) PULLEY DIAMETER00" (00mm) NOSE DIAMETER......00" (00mm) EXCITOR DIAMETER00" (00mm) WEIGHT......00 Lbs. OVERALL WIDTH......00" (00mm)	
PIONEER NO. DA-3550 CRANK BORE......0.59" (14.96mm) PULLEY DIAMETER5.30" (134.72mm) NOSE DIAMETER.....1.10" (28.02mm) WEIGHT.....2.03 Lbs. OVERALL WIDTH.....1.80" (45.77mm)	
PIONEER NO. DA-3551 CRANK BORE......0.92" (23.42mm) PULLEY DIAMETER5.30" (00mm) WEIGHT.....4.55 Lbs. OVERALL WIDTH.....2.01" (00mm)	
PIONEER NO. DA-3601 CRANK BORE.....1.36" (34.5mm) RING DIAMETER6.75" (171.45mm) NOSE DIAMETER.....2.00" (50.9mm) WEIGHT.....8.16 Lbs. OVERALL WIDTH.....3.23 (82mm)"	

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HARMONIC BALANCER ILLUSTRATIONS

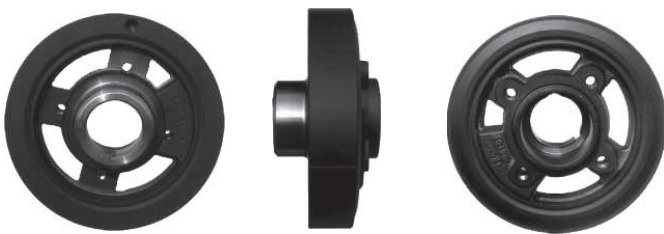
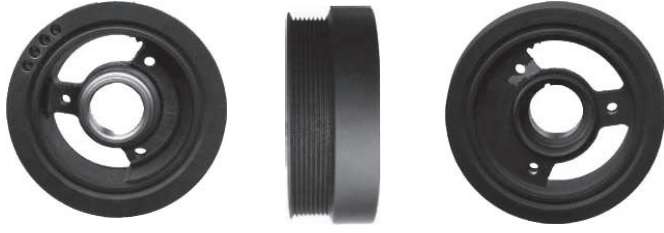
PIONEER NO. DA-3602 CRANK BORE.....1.53" (38.85mm) RING DIAMETER7.10" (180.3mm) NOSE DIAMETER2.19" (55.55mm) WEIGHT.....9.58 Lbs. OVERALL WIDTH2.54" (64.5mm)	
PIONEER NO. DA-3603 CRANK BORE.....1.56" (36.62mm) PULLEY DIAMETER7.22" (183.39mm) NOSE DIAMETER2.133" (54.18mm) WEIGHT.....12.025 Lbs. OVERALL WIDTH4.787" (121.59mm)	
PIONEER NO. DA-3790 CRANK BORE.....1.60" (40.65mm) RING DIAMETER7.93" (201.5mm) NOSE DIAMETER2.33" (59.25mm) WEIGHT.....12.57 Lbs. OVERALL WIDTH3.15" (80mm)	
PIONEER NO. DA-3950 CRANK BORE.....1.60" (40.65mm) RING DIAMETER7.94" (201.65mm) NOSE DIAMETER2.33" (59.29mm) WEIGHT.....12.35 Lbs. OVERALL WIDTH2.44" (62mm)	
PIONEER NO. DA-3955 CRANK BORE.....2.058" (52.27mm) PULLEY DIAMETER7.731" (196.37mm) WEIGHT.....7.338 Lbs. OVERALL WIDTH7.949" (49.50mm)	
PIONEER NO. DA-4159 CRANK BORE.....1.24" (34.69mm) PULLEY DIAMETER7.00" (178.5mm) NOSE DIAMETER2.00" (50.83mm) WEIGHT.....5.23 Lbs. OVERALL WIDTH1.65" (41.97mm)	

HD - HEAVY DUTY APPLICATION

SFI - SFI RACE APPLICATION

SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

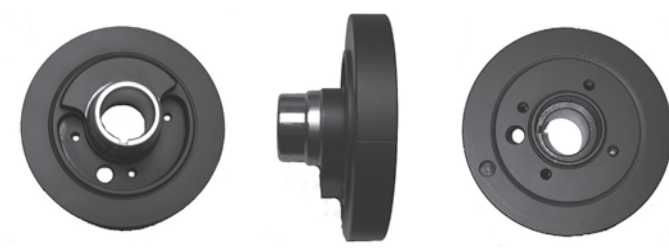
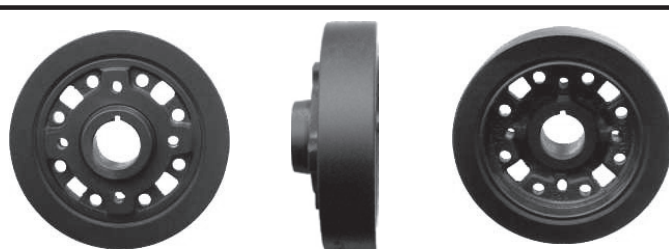
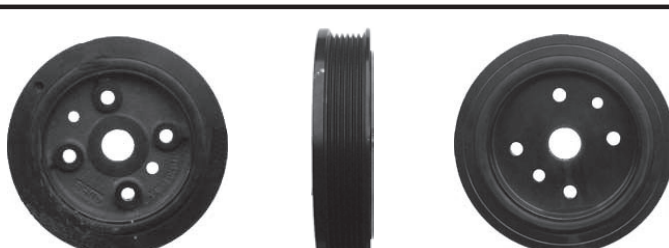
PIONEER NO. DA-4451 CRANK BORE.....1.74" (44.15mm) RING DIAMETER7.09" (180mm) NOSE DIAMETER.....2.51" (63.65mm) WEIGHT.....10.8 Lbs. OVERALL WIDTH.....3.35" (85.0mm)	
PIONEER NO. DA-4452 CRANK BORE.....1.74" (44.18mm) PULLEY DIAMETER6.77" (172mm) RING DIAMETER7.15" (181.5mm) NOSE DIAMETER.....2.20" (55.91mm) WEIGHT.....13.01 Lbs. OVERALL WIDTH.....2.80" (71mm) 7 POLY VEES	
PIONEER NO. DA-4541 CRANK BORE.....1.57" (40mm) RING DIAMETER8.00" (203.3mm) NOSE DIAMETER.....2.33" (59.2mm) WEIGHT.....14.99 Lbs. OVERALL WIDTH.....2.66" (67.6mm)	
PIONEER NO. DA-4541-HD CRANK BORE.....1.57" (40mm) RING DIAMETER8.00" (203.3mm) NOSE DIAMETER.....2.33" (59.2mm) WEIGHT.....14.99 Lbs. OVERALL WIDTH.....2.66" (67.6mm)	
PIONEER NO. DA-4542 CRANK BORE.....1.57" (40mm) RING DIAMETER8.00" (203.3mm) NOSE DIAMETER.....2.33" (59.2mm) WEIGHT.....16.54 Lbs. OVERALL WIDTH.....2.66" (67.6mm)	
PIONEER NO. DA-4543 CRANK BORE.....1.599" (40.61mm) NOSE DIAMETER.....2.335" (59.3mm) RING DIAMETER8.00" (203.2mm) WEIGHT.....16.09 Lbs. OVERALL WIDTH.....2.685" (68.2mm)	

HD - HEAVY DUTY APPLICATION

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SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

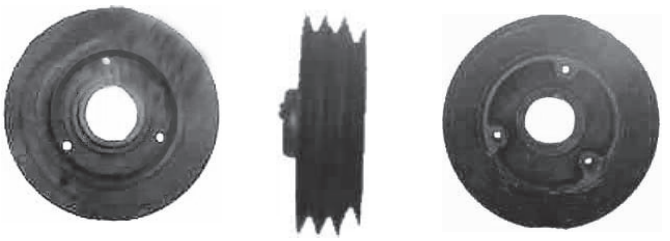
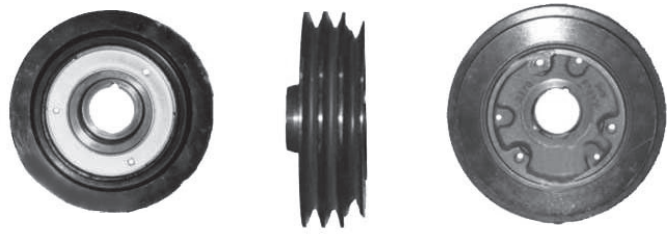
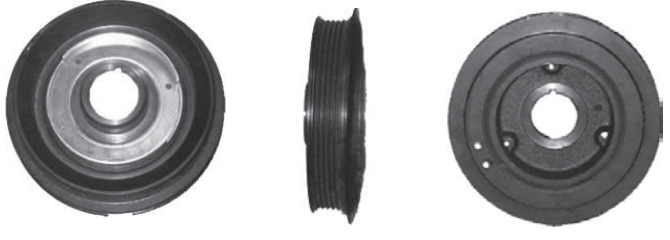
PIONEER NO. DA-4551 CRANK BORE.....1.38" (35mm) RING DIAMETER6.79" (172.5mm) NOSE DIAMETER1.87" (47.5mm) WEIGHT.....6.61 Lbs. OVERALL WIDTH3.06" (77.7mm)	
PIONEER NO. DA-4551-HD CRANK BORE.....1.38" (35mm) RING DIAMETER6.79" (172.5mm) NOSE DIAMETER1.87" (47.5mm) WEIGHT.....6.61 Lbs. OVERALL WIDTH3.06" (77.7mm)	
PIONEER NO. DA-4552 CRANK BORE.....1.500" (38.1mm) NOSE DIAMETER1.996" (50.7mm) RING DIAMETER6.50" (158.75mm) WEIGHT.....8.598 Lbs. OVERALL WIDTH3.189" (81mm)	
PIONEER NO. DA-4601 CRANK BORE.....1.38" (35mm) RING DIAMETER6.65" (169mm) WEIGHT.....8.16 Lbs. OVERALL WIDTH2.36" (60mm)	
PIONEER NO. DA-4602 CRANK BORE.....1.38" (35mm) RING DIAMETER6.65" (169mm) WEIGHT.....8.16 Lbs. OVERALL WIDTH2.36" (60mm)	
PIONEER NO. DA-5252 CRANK BORE.....0.94" (24mm) PULLEY DIAMETER5.88" (149.3mm) WEIGHT.....4.85 Lbs. OVERALL WIDTH1.32" (33.5mm)	

HD - HEAVY DUTY APPLICATION

SFI - SFI RACE APPLICATION

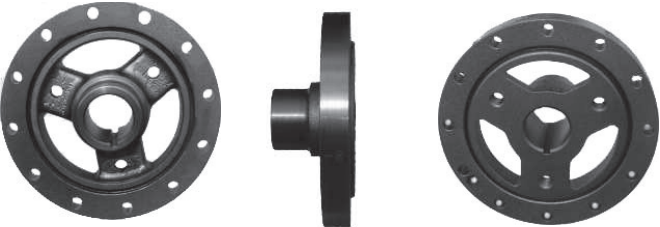
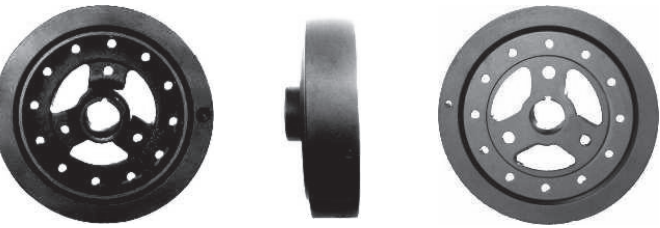
SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

PIONEER NO. DA-9000 CRANK BORE.....1.38" (35mm) PULLEY DIAMETER5.91" (150mm) NOSE DIAMETER.....1.89" (47.95mm) WEIGHT.....5.53 Lbs. OVERALL WIDTH.....2.19" (55.5mm)	
PIONEER NO. DA-9001 CRANK BORE.....1.38" (35mm) PULLEY DIAMETER5.59" (141.95mm) NOSE DIAMETER.....1.89" (47.95mm) WEIGHT.....6.30 Lbs. OVERALL WIDTH.....1.71" (43.5mm)	
PIONEER NO. DA-9002 CRANK BORE.....1.38" (35mm) PULLEY DIAMETER5.90" (149.95mm) NOSE DIAMETER.....1.89" (47.95mm) WEIGHT.....6.39 Lbs. OVERALL WIDTH.....2.15" (54.5mm)	
PIONEER NO. DA-9003 CRANK BORE.....1.38" (35mm) PULLEY DIAMETER5.90" (149.95mm) NOSE DIAMETER.....1.89" (47.95mm) WEIGHT.....4.18 Lbs. OVERALL WIDTH.....2.22" (56.5mm)	

HD - HEAVY DUTY APPLICATION SFI - SFI RACE APPLICATION SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

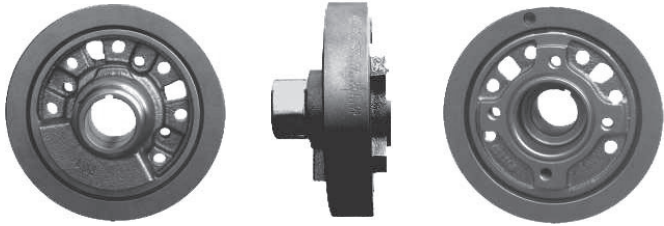
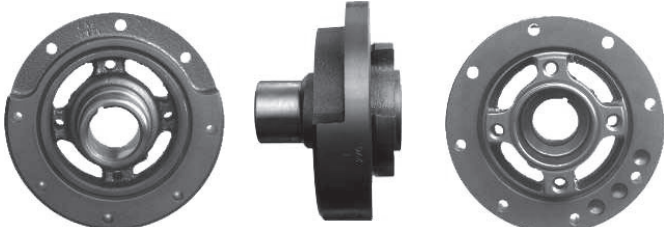
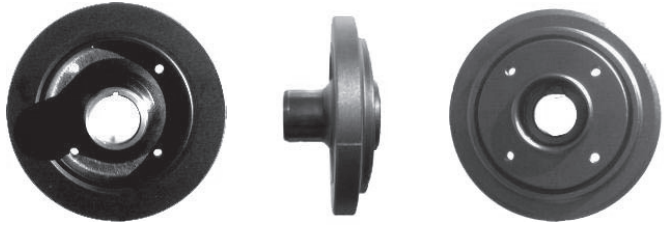
PIONEER NO. 872001 BALANCEDInternal PULLEY PATTERN3-Bolt DIAMETER6.12" OVERALL THICKNESS2.340" RING THICKNESS0.756" NOSE DIAMETER1.764" CRANK BORE.....1.245" WEIGHT.....4.63 Lbs.	
PIONEER NO. 872002 BALANCEDInternal PULLEY PATTERN3-Bolt DIAMETER6.75" OVERALL THICKNESS2.340" RING THICKNESS1.190" NOSE DIAMETER1.764" CRANK BORE.....1.245" WEIGHT.....8.16 Lbs.	
PIONEER NO. 872003 BALANCEDInternal PULLEY PATTERN3-Bolt DIAMETER8.01" OVERALL THICKNESS2.330" RING THICKNESS1.319" NOSE DIAMETER1.764" CRANK BORE.....1.245" WEIGHT.....10.4 Lbs.	
PIONEER NO. 872004 BALANCEDExternal PULLEY PATTERN3-Bolt DIAMETER8.00" OVERALL THICKNESS2.330" RING THICKNESS1.516" NOSE DIAMETER1.764" CRANK BORE.....1.245" WEIGHT.....10.5 Lbs.	
PIONEER NO. 872005 BALANCEDInternal PULLEY PATTERN3-Bolt DIAMETER8.00" OVERALL THICKNESS2.680" RING THICKNESS1.710" NOSE DIAMETER2.335" CRANK BORE.....1.598" WEIGHT.....12.9 Lbs.	
PIONEER NO. 872006 BALANCEDExternal PULLEY PATTERN3-Bolt DIAMETER8.00" OVERALL THICKNESS2.680" RING THICKNESS1.730" NOSE DIAMETER2.335" CRANK BORE.....1.598" WEIGHT.....14.3 Lbs.	

HD - HEAVY DUTY APPLICATION

SFI - SFI RACE APPLICATION

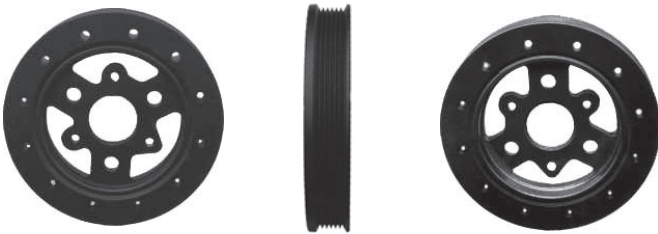
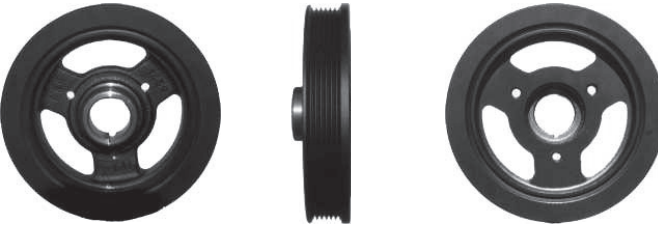
SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

PIONEER NO. 872007 BALANCED.....External PULLEY PATTERN4-Bolt DIAMETER6.50" OVERALL THICKNESS.....3.500" RING THICKNESS1.260" NOSE DIAMETER.....1.876" CRANK BORE.....1.374" WEIGHT.....9.3 Lbs.	
PIONEER NO. 872008 BALANCED.....External PULLEY PATTERN3-Bolt DIAMETER6.50" OVERALL THICKNESS.....3.180" RING THICKNESS1.260" NOSE DIAMETER.....1.876" CRANK BORE.....1.374" WEIGHT.....9.2 Lbs.	
PIONEER NO. 872009 BALANCED.....External PULLEY PATTERN3-Bolt DIAMETER6.50" OVERALL THICKNESS.....3.020" RING THICKNESS1.260" NOSE DIAMETER.....1.876" CRANK BORE.....1.374" WEIGHT.....9.1 Lbs.	
PIONEER NO. 872010 BALANCED.....External PULLEY PATTERN4-Bolt DIAMETER6.40" OVERALL THICKNESS.....4.130" RING THICKNESS1.500" NOSE DIAMETER.....1.876" CRANK BORE.....1.374" WEIGHT.....9.1 Lbs.	
PIONEER NO. 872011 BALANCED.....Internal PULLEY PATTERN4-Bolt DIAMETER6.79" OVERALL THICKNESS.....3.240" RING THICKNESS1.130" NOSE DIAMETER.....1.871" CRANK BORE.....1.375" WEIGHT.....6.8 Lbs.	
PIONEER NO. 872012 BALANCED.....Internal PULLEY PATTERN3-Bolt DIAMETER7.50" OVERALL THICKNESS.....3.73" RING THICKNESS1.37" NOSE DIAMETER.....2.13" CRANK BORE.....1.48" WEIGHT.....10.5 Lbs.	

HD - HEAVY DUTY APPLICATION SFI - SFI RACE APPLICATION SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

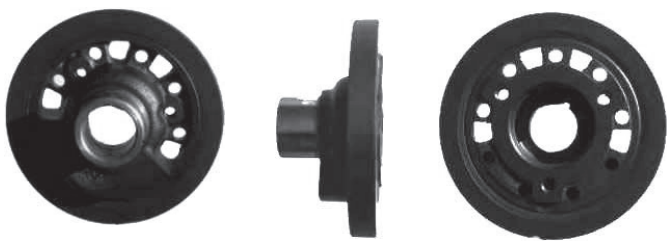
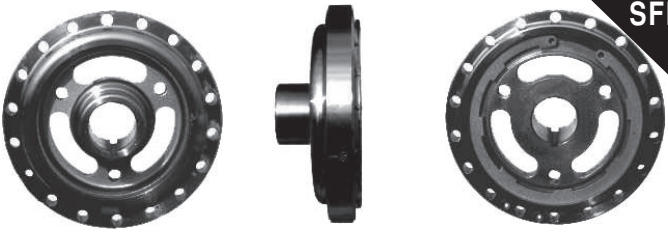
PIONEER NO. 872013 BALANCEDInternal PULLEY PATTERN3-Bolt DIAMETER7.50" OVERALL THICKNESS1.34" RING THICKNESS1.280" NOSE DIAMETERN/A CRANK BORE.....N/A WEIGHT.....8.8 Lbs.	
PIONEER NO. 872014 BALANCEDInternal PULLEY PATTERN3-Bolt DIAMETER6.75" OVERALL THICKNESS1.750" RING THICKNESS1.250" NOSE DIAMETER1.750" CRANK BORE.....1.250" WEIGHT.....6.8 Lbs.	
PIONEER NO. 872015 PULLEY PATTERN3-Bolt Overall Length.....3.516"	
PIONEER NO. 872016 PULLEY PATTERN3-Bolt Overall Length.....3.516"	
PIONEER NO. 872017 <i>(Replaces Internal & External balanced dampers. Must be used with O.E. counter weighted sleeve for external balanced applications.)</i> PULLEY PATTERN4-Bolt DIAMETER6.62" OVERALL THICKNESS2.43" RING THICKNESS1.37" NOSE DIAMETER2.18" CRANK BORE.....1.37" WEIGHT.....8.32 Lbs.	
PIONEER NO. 872018 BALANCEDExternal PULLEY PATTERN4-Bolt DIAMETER6.50" OVERALL THICKNESS4.09" RING THICKNESS1.290" NOSE DIAMETER1.870" CRANK BORE.....1.370" WEIGHT.....10.11 Lbs.	

HD - HEAVY DUTY APPLICATION

SFI - SFI RACE APPLICATION

SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

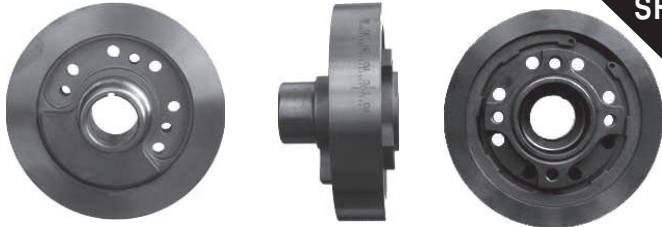
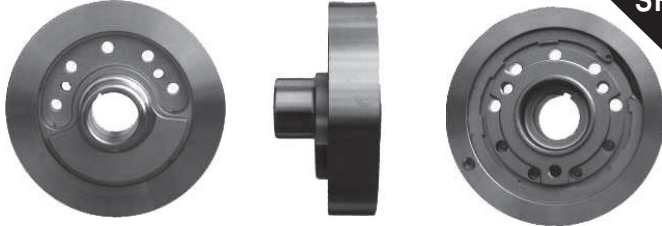
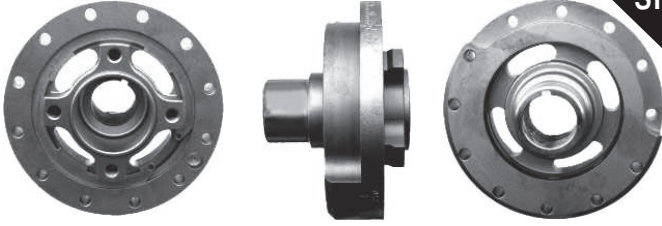
PIONEER NO. 872019 BALANCED.....External PULLEY PATTERN3-Bolt DIAMETER6.33" OVERALL THICKNESS.....3.00" RING THICKNESS.....0.760" NOSE DIAMETER.....1.870" CRANK BORE.....1.370" WEIGHT.....6.6 Lbs.	
PIONEER NO. 872020 BALANCED.....Internal PULLEY PATTERN6-Bolt DIAMETER7.08" OVERALL THICKNESS.....2.56" RING THICKNESS.....0.950" NOSE DIAMETER.....2.19" CRANK BORE.....1.55" WEIGHT.....7.7 Lbs.	
PIONEER NO. 872021 BALANCED.....Internal PULLEY PATTERN3-Bolt DIAMETER6.10" OVERALL THICKNESS.....2.360" RING THICKNESS.....1.320" NOSE DIAMETER.....1.764" CRANK BORE.....1.245" WEIGHT.....5.5 Lbs.	
PIONEER NO. 872022 BALANCED.....Internal PULLEY PATTERN3-Bolt DIAMETER6.72" OVERALL THICKNESS.....2.360" RING THICKNESS.....1.320" NOSE DIAMETER.....1.764" CRANK BORE.....1.245" WEIGHT.....7.9 Lbs.	
PIONEER NO. 872023 BALANCED.....Internal PULLEY PATTERN3-Bolt DIAMETER7.96" OVERALL THICKNESS.....2.330" RING THICKNESS.....1.600" NOSE DIAMETER.....1.764" CRANK BORE.....1.245" WEIGHT.....11.2 Lbs.	
PIONEER NO. 872024 BALANCED.....External PULLEY PATTERN3-Bolt DIAMETER7.96" OVERALL THICKNESS.....2.330" RING THICKNESS.....1.600" NOSE DIAMETER.....1.764" CRANK BORE.....1.245" WEIGHT.....10.6 Lbs.	

HD - HEAVY DUTY APPLICATION

SFI - SFI RACE APPLICATION

SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

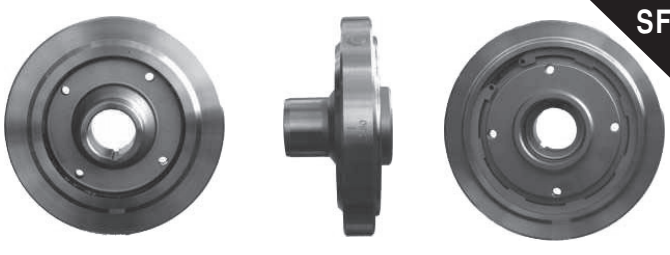
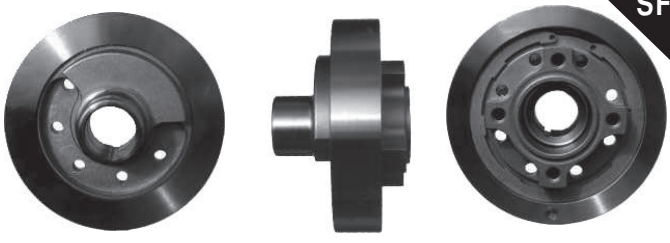
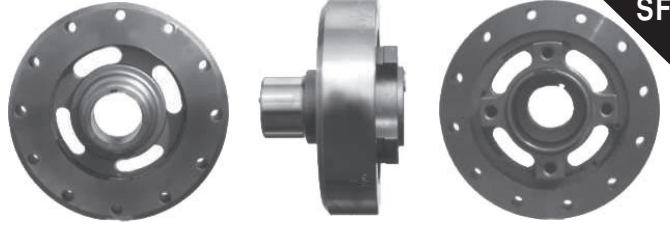
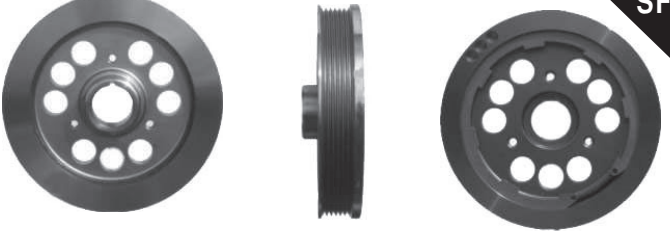
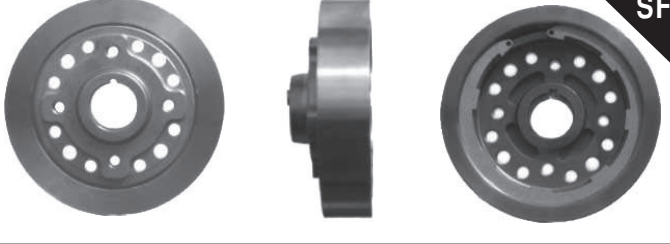
PIONEER NO. 872025 BALANCEDInternal PULLEY PATTERN3-Bolt DIAMETER7.96" OVERALL THICKNESS2.680" RING THICKNESS1.945" NOSE DIAMETER2.335" CRANK BORE.....1.598" WEIGHT.....15.4 Lbs.	 SFI
PIONEER NO. 872026 BALANCEDExternal PULLEY PATTERN3-Bolt DIAMETER7.96" OVERALL THICKNESS2.680" RING THICKNESS1.945" NOSE DIAMETER2.335" CRANK BORE.....1.598" WEIGHT.....15.9 Lbs.	 SFI
PIONEER NO. 872027 BALANCEDExternal PULLEY PATTERN4-Bolt DIAMETER6.50" OVERALL THICKNESS3.500" RING THICKNESS1.390" NOSE DIAMETER1.876" CRANK BORE.....1.374" WEIGHT.....10.9 Lbs.	 SFI
PIONEER NO. 872028 BALANCEDExternal PULLEY PATTERN3-Bolt DIAMETER6.50" OVERALL THICKNESS3.180" RING THICKNESS1.390" NOSE DIAMETER1.876" CRANK BORE.....1.374" WEIGHT.....10.9 Lbs.	 SFI
PIONEER NO. 872029 BALANCEDExternal PULLEY PATTERN3-Bolt DIAMETER6.50" OVERALL THICKNESS3.180" RING THICKNESS1.390" NOSE DIAMETER1.876" CRANK BORE.....1.374" WEIGHT.....10.9 Lbs.	 SFI
PIONEER NO. 872030 BALANCEDExternal PULLEY PATTERN4-Bolt DIAMETER6.37" OVERALL THICKNESS4.130" RING THICKNESS1.570" NOSE DIAMETER1.876" CRANK BORE.....1.374" WEIGHT.....9.9 Lbs.	 SFI

HD - HEAVY DUTY APPLICATION

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SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

PIONEER NO. 872031 BALANCED.....Internal PULLEY PATTERN4-Bolt DIAMETER6.76" OVERALL THICKNESS.....2.840" RING THICKNESS1.260" NOSE DIAMETER.....1.871" CRANK BORE.....1.375" WEIGHT.....10.4 Lbs.		SFI
PIONEER NO. 872032 BALANCED.....External PULLEY PATTERN4-Bolt DIAMETER6.50" OVERALL THICKNESS.....4.110" RING THICKNESS1.390" NOSE DIAMETER.....1.876" CRANK BORE.....1.374" WEIGHT.....11.4 Lbs.		SFI
PIONEER NO. 872034 BALANCED.....Internal PULLEY PATTERN4-Bolt DIAMETER6.10" OVERALL THICKNESS.....4.130" RING THICKNESS1.570" NOSE DIAMETER.....1.876" CRANK BORE.....1.374" WEIGHT.....8.0 Lbs.		SFI
PIONEER NO. 872035 BALANCED.....Internal PULLEY PATTERN3-Bolt DIAMETER6.88" OVERALL THICKNESS.....1.800" RING THICKNESS1.320" NOSE DIAMETER.....1.750" CRANK BORE.....1.250" WEIGHT.....7.2 Lbs.		SFI
PIONEER NO. 872036 <i>(Replaces Internal & External balanced dampers. Must be used with O.E. counter weighted sleeve for external balanced applications.)</i> PULLEY PATTERN4-Bolt DIAMETER6.76" OVERALL THICKNESS.....2.400" RING THICKNESS1.480" NOSE DIAMETER.....2.180" CRANK BORE.....1.370" WEIGHT.....9.2 Lbs.		SFI
PIONEER NO. 872037 BALANCED.....Internal PULLEY PATTERN6-Bolt DIAMETER7.24" OVERALL THICKNESS.....2.60" RING THICKNESS1.20" NOSE DIAMETER.....2.19" CRANK BORE.....1.55" WEIGHT.....9.4 Lbs.		SFI

HD - HEAVY DUTY APPLICATION

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SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

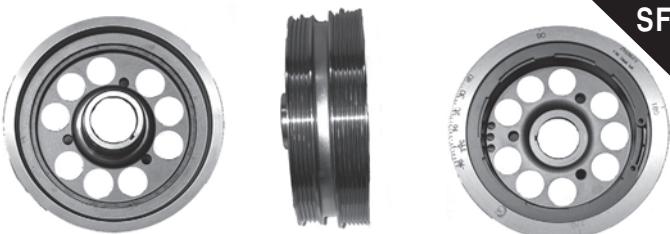
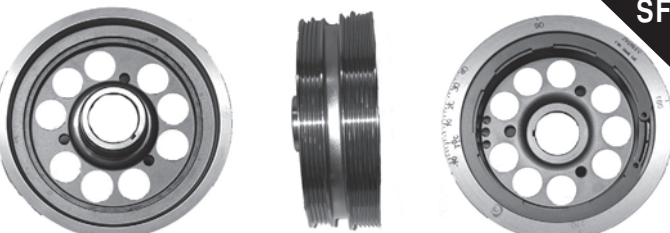
PIONEER NO. 872038 BALANCEDExternal PULLEY PATTERN6-Bolt DIAMETER7.21" OVERALL THICKNESS2.56" RING THICKNESS1.20" NOSE DIAMETER2.19" CRANK BORE.....1.55" WEIGHT.....9.4 Lbs.	 SFI
PIONEER NO. 872039 BALANCEDInternal PULLEY PATTERN6-Bolt DIAMETER7.11" OVERALL THICKNESS2.56" RING THICKNESS1.20" NOSE DIAMETER2.18" CRANK BORE.....1.53" WEIGHT.....7.7 Lbs.	 SP
PIONEER NO. 872040 BALANCEDInternal PULLEY PATTERN6-Bolt DIAMETER7.11" OVERALL THICKNESS2.56" RING THICKNESS1.20" NOSE DIAMETER2.18" CRANK BORE.....1.53" WEIGHT.....9.4 Lbs.	 SFI
PIONEER NO. 872041 BALANCEDInternal PULLEY PATTERN3-Bolt DIAMETER7.50" OVERALL THICKNESS3.73" RING THICKNESS1.37" NOSE DIAMETER2.13" CRANK BORE.....1.48" WEIGHT.....11.2 Lbs.	 SFI
PIONEER NO. 872042 BALANCEDInternal PULLEY PATTERN3-Bolt DIAMETER6.75" OVERALL THICKNESS3.66" RING THICKNESS1.37" NOSE DIAMETER2.13" CRANK BORE.....1.48" WEIGHT.....9.9 Lbs.	 SFI
PIONEER NO. 872043 BALANCEDInternal PULLEY PATTERN3-Bolt DIAMETER7.50" OVERALL THICKNESSN/A RING THICKNESS1.280" NOSE DIAMETERN/A CRANK BORE.....N/A WEIGHT.....9.25 Lbs.	 SFI

HD - HEAVY DUTY APPLICATION

SFI - SFI RACE APPLICATION

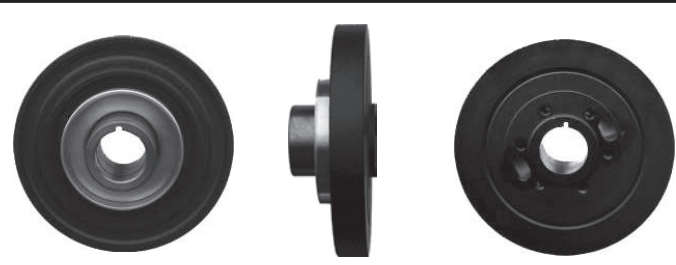
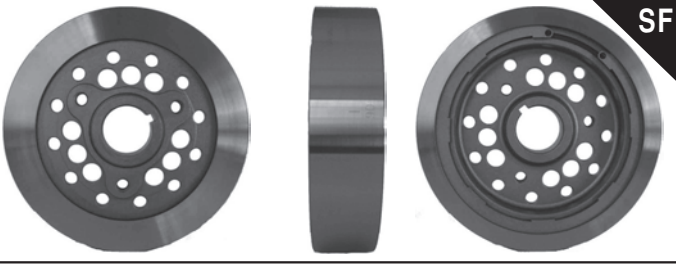
SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

PIONEER NO. 872044 BALANCED.....Internal PULLEY PATTERN3-Bolt DIAMETER6.75" OVERALL THICKNESS.....N/A RING THICKNESS1.280" NOSE DIAMETER.....N/A CRANK BORE.....N/A WEIGHT.....8.37 Lbs.	 SFI
PIONEER NO. 872046 BALANCED.....Internal PULLEY PATTERN3-Bolt DIAMETER7.00" OVERALL THICKNESS.....2.68" RING THICKNESS1.50" NOSE DIAMETER.....2.33" CRANK BORE.....1.59" WEIGHT.....9.00 Lbs.	 SFI
PIONEER NO. 872047 BALANCED.....Internal PULLEY PATTERN3-Bolt DIAMETER7.50" OVERALL THICKNESS.....2.83" RING THICKNESS2.40" NOSE DIAMETER.....2.13" CRANK BORE.....1.48" WEIGHT.....11 Lbs.	 SFI
PIONEER NO. 872048 BALANCED.....External PULLEY PATTERN3-Bolt DIAMETER6.75" OVERALL THICKNESS.....2.34" RING THICKNESS1.19" NOSE DIAMETER.....1.76" CRANK BORE.....1.24" WEIGHT.....8.6 Lbs.	 SFI
PIONEER NO. 872049 PULLEY PATTERN3-Bolt Overall Length.....3.417"	
PIONEER NO. 872050 BALANCED.....Internal PULLEY PATTERN3-Bolt DIAMETER7.24" OVERALL THICKNESS.....2.83" RING THICKNESS2.40" NOSE DIAMETER.....2.13" CRANK BORE.....1.48" WEIGHT.....11 Lbs.	 SFI

HD - HEAVY DUTY APPLICATION SFI - SFI RACE APPLICATION SP - STREET PERFORMANCE APPLICATION

HARMONIC BALANCER ILLUSTRATIONS

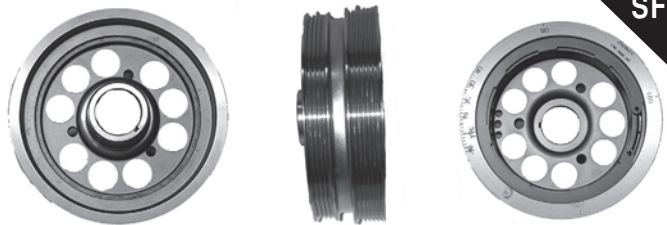
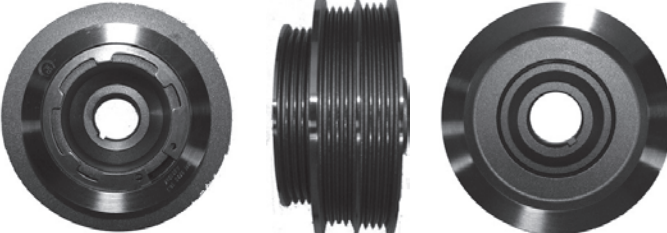
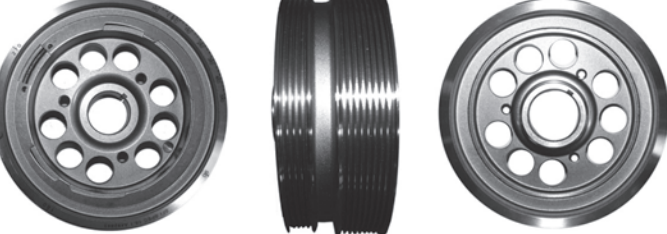
PIONEER NO. 872052 BALANCEDInternal PULLEY PATTERN3-Bolt DIAMETER7.05" OVERALL THICKNESS2.32" RING THICKNESS1.83" NOSE DIAMETER1.87" CRANK BORE.....1.25" WEIGHT.....9.0 Lbs.	
PIONEER NO. 872053 BALANCEDInternal PULLEY PATTERN3-Bolt DIAMETER6.35" OVERALL THICKNESS2.32" RING THICKNESS1.83" NOSE DIAMETER1.87" CRANK BORE.....1.25" WEIGHT.....9.1 Lbs.	
PIONEER NO. 872054 BALANCEDInternal PULLEY PATTERN6-Bolt DIAMETER6.10" OVERALL THICKNESS2.56" RING THICKNESS0.950" NOSE DIAMETER2.19" CRANK BORE.....1.55" WEIGHT.....5.6 Lbs.	
PIONEER NO. 872055 BALANCEDInternal PULLEY PATTERN3-Bolt DIAMETER6.22" OVERALL THICKNESS3.87" RING THICKNESS1.37" NOSE DIAMETER2.13" CRANK BORE.....1.48" WEIGHT.....9.9 Lbs.	
PIONEER NO. 872056 BALANCEDInternal PULLEY PATTERN3-Bolt DIAMETER7.00" OVERALL THICKNESS1.574" RING THICKNESS1.102" NOSE DIAMETER2.00" CRANK BORE.....1.374" WEIGHT.....7.7 Lbs.	
PIONEER NO. 872057 BALANCEDInternal PULLEY PATTERN3-Bolt DIAMETER7.00" OVERALL THICKNESS1.78" RING THICKNESS1.156" NOSE DIAMETER2.00" CRANK BORE.....1.374" WEIGHT.....8.9 Lbs.	

HD - HEAVY DUTY APPLICATION

SFI - SFI RACE APPLICATION

SP - STREET PERFORMANCE APPLICATION

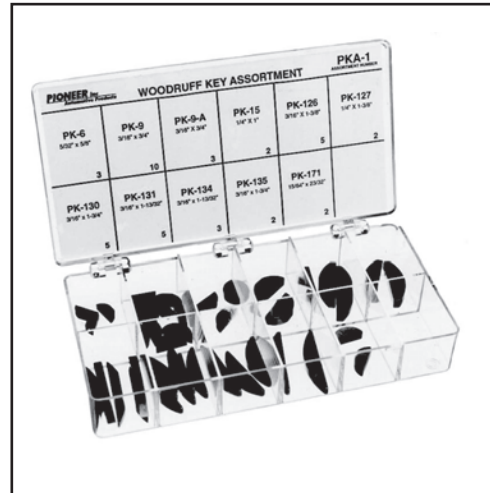
HARMONIC BALANCER ILLUSTRATIONS

PIONEER NO. 872058 BALANCED.....Internal PULLEY PATTERN3-Bolt DIAMETER7.24" OVERALL THICKNESS.....2.83" RING THICKNESS2.45" NOSE DIAMETER.....2.13" CRANK BORE.....1.48" WEIGHT.....9.82 Lbs.	
PIONEER NO. 872060 BALANCED.....Internal PULLEY PATTERN-Bolt DIAMETER00" OVERALL THICKNESS......00" RING THICKNESS00" NOSE DIAMETER.....2.331" CRANK BORE.....1.583" WEIGHT.....6.275 Lbs.	
PIONEER NO. 872061 BALANCED.....Internal PULLEY PATTERN-Bolt DIAMETER00" OVERALL THICKNESS......00" RING THICKNESS00" NOSE DIAMETER.....2.334" CRANK BORE.....1.596" WEIGHT.....8.68 Lbs.	
PIONEER NO. 872062 BALANCED.....Internal PULLEY PATTERN-Bolt DIAMETER00" OVERALL THICKNESS......00" RING THICKNESS00" NOSE DIAMETER......00" CRANK BORE.....1.092" WEIGHT.....5.825 Lbs.	
PIONEER NO. 872063 BALANCED.....Internal PULLEY PATTERN-Bolt DIAMETER00" OVERALL THICKNESS......00" RING THICKNESS00" NOSE DIAMETER.....2.129" CRANK BORE.....1.472" WEIGHT.....10.54 Lbs.	

HD - HEAVY DUTY APPLICATION SFI - SFI RACE APPLICATION SP - STREET PERFORMANCE APPLICATION

Woodruff Keys & Assortments *(Listed Numerically & by Size)*

– NUMERICAL –		– BY SIZE –	
PIONEER NUMBER	SIZE WIDTH X LENGTH	SIZE WIDTH X LENGTH	PIONEER NUMBER
PK-D	5/16" x 1-1/4"	3/32" x 1/2"	PK-2
PK-2	3/32" x 1/2"	3/32" x 5/8"	PK-4
PK-3	1/8" x 1/2"	1/8" x 1/2"	PK-3
PK-4	3/32" x 5/8"	1/8" x 3/4"	PK-7
PK-5	1/8" x 5/8"	1/8" x 5/8"	PK-5
PK-6	5/32" x 5/8"	9/64" X 27/64"	PK-209
PK-7	1/8" x 3/4"	5/32" x 3/4"	PK-8
PK-8	5/32" x 3/4"	5/32" x 37/64"	PK-186
PK-9	3/16" x 3/4"	5/32" x 5/8"	PK-6
PK-9-A	3/16" x 3/4" (Alloy)	5/32" x 7/8"	PK-10
PK-10	5/32" x 7/8"	3/16" x 1"	PK-13
PK-11	3/16" x 7/8"	3/16" x 1-13/32"	PK-131
PK-12	3/16" x 5/8"	3/16" x 1-13/32"	PK-134
PK-13	3/16" x 1"	3/16" x 1-3/4"	PK-130
PK-15	1/4" x 1"	3/16" x 1-3/4"	PK-135
PK-21	1/4" x 1-1/4"	3/16" x 1-3/8"	PK-126
PK-29	3/8" x 2-1/8"	3/16" x 1-3/8" (Alloy)	PK-126-A
PK-91	1/4" x 3/4"	3/16" x 2-3/8"	PK-145
PK-126	3/16" x 1-3/8"	3/16" x 3/4"	PK-9
PK-126-A	3/16" x 1-3/8" (Alloy)	3/16" x 3/4" (Alloy)	PK-9-A
PK-127	1/4" x 1-3/8"	3/16" x 5/8"	PK-12
PK-130	3/16" x 1-3/4"	3/16" x 7/8"	PK-11
PK-131	3/16" x 1-13/32"	13/64" x 1-31/64"	PK-183
PK-134	3/16" x 1-13/32"	13/64" x 39/64"	PK-188
PK-135	3/16" x 1-3/4"	13/64" x 45/64"	PK-189
PK-145	3/16" x 2-3/8"	3/16" x 1-3/64"	PK-179
PK-171	15/64" x 23/32"	3/16" x 1-11/32"	PK-195
PK-172	1/4" x 1-7/64"	3/16" x 19/32"	PK-187
PK-173	5/16" x 31/32"	3/16" x 1-13/16"	PK-178
PK-174	1/4" x 55/64"	3/16" x 1-13/16"	PK-192
PK-175	5/16" x 1-7/64"	3/16" x 1-23/32"	PK-208
PK-178	3/16" x 1-13/16"	15/64 x 23/32"	PK-171
PK-179	3/16" x 1-3/64"	15/64" x 53/64"	PK-181
PK-181	15/64" x 53/64"	15/64" x 1-3/4"	PK-210
PK-183	13/64" x 1-31/64"	5/16" x 31/32"	PK-173
PK-186	5/32" x 37/64"	5/16" x 1-1/4"	PK-D
PK-187	3/16" x 19/32"	5/16" x 1-7/64"	PK-175
PK-188	13/64" x 39/64"	1/4" x 1"	PK-15
PK-189	13/64" x 45/64"	1/4" x 1-1/4"	PK-21
PK-192	3/16" x 1-13/16"	1/4" x 1-3/8"	PK-127
PK-195	3/16" x 1-11/32"	1/4" x 3/4"	PK-91
PK-204	1/4" x 2-5/8"	1/4" x 55/64"	PK-174
PK-207	1/4" x 2-55/64"	1/4" x 2-55/64"	PK-207
PK-208	3/16" x 1-23/32"	1/4" x 2-5/8"	PK-204
PK-209	9/64" x 27/64"	1/4" x 1-7/64"	PK-172
PK-210	15/64" x 1-3/4"	3/8" x 2-1/8"	PK-29
PK-250	3/8" x 3-3/4"	3/8" x 3-3/4"	PK-250



ASSORTMENT – PKA-1

PIONEER NUMBER	QTY. IN KIT	PIONEER NUMBER	QTY IN KIT
PK-6	3	PK-130	5
PK-9	10	PK-131	5
PK-9-A	3	PK-134	3
PK-15	3	PK-135	2
PK-126	2	PK-171	2
PK-127	5		

ASSORTMENT – PKA-2

PIONEER NUMBER	QTY. IN KIT	PIONEER NUMBER	QTY IN KIT
PK-D	10	PK-21	10
PK-2	10	PK-91	10
PK-3	10	PK-126	10
PK-4	10	PK-131	10
PK-5	10	PK-135	10
PK-6	10	PK-172	10
PK-8	10	PK-173	10
PK-9	10	PK-174	10
PK-10	10	PK-175	10
PK-11	10	PK-178	10
PK-13	10	PK-179	10
PK-15	10		

(See Harmonic Balancer Woodruff Key Applications - Next Page)

Harmonic Balancer Woodruff Keys

CYL.	YEAR	LITER	ENGINE C.I.D.	APPLICATION	PIONEER NUMBER	CYL.	YEAR	LITER	ENGINE C.I.D.	APPLICATION	PIONEER NUMBER
AMC / JEEP						CADILLAC - Cont'd.					
8	1967-72			All	PK-126	8	1991-92	5.0	305		PK-9
6	1967-88			All	PK-9	8	1976-90	5.0	307Y		PK-207
8	1973-84			All	PK-178	8	1982-92	5.0	307Y		PK-204
4	1980-83		151		PK-9	8	1990-92	5.7	350		PK-9
4	1983-84				PK-9	8	1976-90	5.7	350N		PK-207
BUICK						8	1976-90	5.7	350R		PK-207
4	1982-91	1.8	112		PK-188	8	1946-84	6.0	368		PK-126
4	1982-92	1.8	112		PK-9	8	1946-84	6.0	425		PK-126
4	1982-91	2.0	121		PK-188	8	1946-84	6.0	429		PK-126
4	1982-92	2.0	121		PK-9	8	1946-84	6.0	472		PK-126
4	1982-92	2.2	134		PK-9	8	1946-84	6.0	500		PK-126
4	1988-92	2.3	138		PK-210	CHEVROLET (Passenger Car & Truck)					
4	1980-84	2.5	151		PK-9	4	1976-88	1.4	85		PK-181
4	1985-92	2.5	151		PK-9	4	1976-88	1.6	98		PK-181
6	1980-88	2.8	173		PK-9	4	1982-91	1.8	112		PK-188
6	1985-92	2.8	173		PK-131	4	1982-92	1.8	112		PK-9
6	1975-92	3.0	181		PK-126	4	1982-91	2.0	121		PK-188
6	1985-92	3.1	189		PK-131	4	1982-92	2.0	121		PK-9
6	1975-92		196		PK-126	4	1971-77		122		PK-11
6	1978-88		200	1 Long Key (Chev. V-6)	PK-126	4	1982-92	2.2	134		PK-9
6	1978-88		200	2 Short Keys	PK-9	4	1982-88	2.3	138		PK-210
6	1989-92	3.3	204		PK-178	4	1971-77		140		PK-11
8	1964-82		225		PK-126	4	1980-84	2.5	151		PK-9
6	1978-88	3.8	229	1 Short Key (Chev. V-6)	PK-126	4	1985-92	2.5	151		PK-9
6	1978-88	3.8	229	2 Short Keys	PK-9	6	1955-86		153	1 Long Key	PK-126
6	1966-75		230		PK-9	6	1955-86		153	2 Long Keys	PK-9
6	1975-92	3.8	231		PK-126	6	1980-88	2.8	173		PK-9
6	1966-75		250		PK-9	6	1985-92	2.8	173		PK-131
6	1975-92	4.1	252		PK-126	6	1978-87	3.0	181		PK-126
6	1978-88	4.3	260Z	1 Long Key (Chev. V-6)	PK-126	6	1985-92	3.1	189		PK-131
6	1978-88	4.3	260Z	2 Short Keys	PK-9	6	1955-86		194	1 Long Key	PK-126
8	1982-92	4.3	260		PK-204	6	1955-86		194	2 Long Keys	PK-9
8	1968-92	4.4	267	1 Long Key	PK-126	6	1978-87		196		PK-126
8	1968-92	4.4	267	2 Short Keys	PK-9	6	1978-92		200	1 Long Key (Chev. V-6)	PK-126
8	1977-82	4.9	301		PK-126	6	1978-92		200	2 Long Keys	PK-9
8	1968-92	5.0	305	1 Long Key	PK-126	6	1991-92	3.4	207		PK-131
8	1968-92	5.0	305	2 Short Keys	PK-9	6	1978-92	3.8	229	1 Long Key (Chev. V-6)	PK-126
8	1976-90	5.0	307Y		PK-207	6	1978-92	3.8	229	2 Long Keys	PK-9
8	1982-92	5.0	307Y		PK-204	6	1955-86		230	1 Long Key	PK-126
8	1964-82		340		PK-126	6	1955-86		230	2 Long Keys	PK-9
8	1968-92	5.7	350	1 Long Key	PK-126	6	1978-87	3.8	231		PK-126
8	1968-92	5.7	350	2 Short Keys	PK-9	6	1978-92	3.8	231		PK-126
8	1964-82		350H		PK-126	6	1955-86		250	1 Long Key	PK-126
8	1964-82		350J		PK-126	6	1955-86		250	2 Long Keys	PK-9
8	1976-90	5.7	350N		PK-207	6	1978-92	4.1	250		PK-126
8	1976-90	5.7	350R		PK-207	6	1978-92	4.3	250Z	1 Long Key (Chev. V-6)	PK-126
8	1964-82		350X		PK-126	6	1978-92	4.3	250Z	2 Long Keys	PK-9
8	1964-78		400		PK-126	6	1978-87	4.1	252		PK-126
8	1977-82		400		PK-126	8	1982-92	4.3	260		PK-204
8	1976-90		403		PK-207	6	1955-86		292	1 Long Key	PK-126
8	1964-78		425		PK-126	6	1955-86		292	2 Long Keys	PK-9
8	1964-78		430		PK-126	8	1980-82	4.9	301		PK-126
8	1964-78		455		PK-126	8	1978-88		307Y		PK-207
CADILLAC						8	1982-92	5.0	307Y		PK-204
4	1982-87	1.8	112		PK-9	8	1978-88		350N		PK-207
4	1982-87	2.0	121		PK-9	8	1978-88		350R		PK-207
6	1985-88	2.8	173		PK-9	8	1982-92	6.2	381	Diesel Engine	PK-9
6	1980-88	3.8	231		PK-126	8	1978-88		403		PK-207
6	1980-99	4.1	250		PK-126	8	1955-92			All Exc. 301, 307Y, 350N, R, 403	
8	1983-85	4.1	250		PK-195	8	1955-92			1 Long Key	PK-126
8	1982-92	4.3	260		PK-204	8	1955-92			2 Short Keys	PK-9

Harmonic Balancer Woodruff Keys - Cont'd.

CYL.	YEAR	LITER	ENGINE C.I.D.	APPLICATION	PIONEER NUMBER	CYL.	YEAR	LITER	ENGINE C.I.D.	APPLICATION	PIONEER NUMBER
CHRYSLER (Includes Dodge & Truck, Plymouth & Truck)						FORD - Cont'd.					
4	1977-81	1.6	97.5		PK-186	8	1970-88		351W		PK-135
4	1978-82	1.7	105		PK-186	8	1980-91	5.8	351W		PK-208
4	1977-81	2.0	122		PK-186	8	1958-78		352		PK-6
4	1981-91	2.2	135		PK-186	8	1958-78		360		PK-6
4	1981-91	2.5	150		PK-186	8	1958-78		361		PK-6
6	1960-82		170		PK-178	8	1980-91	6.1	370		PK-250
6	1960-82		196		PK-178	8	1958-78		390		PK-6
6	1960-82		225		PK-178	8	1970-88		400		PK-135
8	1957-91		273		PK-178	8	1970-74		401		PK-9
8	1957-91	5.2	318		PK-178	8	1958-78		406		PK-6
8	1957-91		340		PK-178	8	1983-87	6.9	420	Diesel Engine	PK-172
8	1957-91		360		PK-178	8	1958-78		427		PK-6
8	1959-79		383		PK-178	8	1958-78		428		PK-6
8	1959-79		400		PK-178	8	1968-88		429		PK-174
8	1959-79		413		PK-178	8	1980-91	7	429		PK-250
8	1959-79		426		PK-178	8	1968-88		430		PK-174
8	1959-79		440		PK-178	8	1988-91	7.3	445	Diesel Engine	PK-172
8	1936-62			ALL	PK-91	8	1968-88		460		PK-174
FORD						8	1985-91	7.5	460		PK-135
4	1971-73	1.6	98		PK-179	8	1968-88		462		PK-174
4	1980-88	1.6	98		PK-179	8	1970-74		475		PK-9
4	1981-85	1.6	98		PK-179	8	1970-74		477		PK-9
4	1985-91	1.9	116		PK-179	8	1980-81	7.8	477		PK-9
4	1974-80	2.3	140		PK-183	8	1970-74		534		PK-9
4	1980-90	2.3	140		PK-183	8	1980-81	8.8	534		PK-9
4	1984-91	2.3	140	HSC	PK-179	HONDA					
6	1965-88		144		PK-135	4	1973-86	1488cc			PK-209
4	1984-91	2.5	153	HSC	PK-179	4	1973-86	1597cc			PK-209
6	1965-88		170		PK-135	4	1973-86	1751cc			PK-209
6	1973-88	2.8	171		PK-171	FORD - Cont'd.					
6	1986-91	2.9	177		PK-171	4	1971-84		A-12		PK-187
6	1986-91	3.0	183		PK-192	4	1971-84		A-13		PK-187
6	1980	3.3	200		PK-135	4	1971-84		A-14		PK-187
6	1965-88		200		PK-135	4	1971-84		A-15		PK-187
6	1980-83	3.3	200		PK-208	4	1984-86		CA-18T		PK-189
8	1962-88		221		PK-131	4	1982-86		CA-20E		PK-188
6	1954-64		223		PK-6	4	1982-86		CA-20S		PK-188
6	1982-87	3.8	230		PK-131	4	1983-86		CD-17 Diesel Engine		PK-188
6	1988-91	3.8	230		PK-131	4	1982-86		E-15		PK-188
6	1982-88	3.8	232		PK-126	4	1982-86		E-16		PK-188
8	1955-64		239		PK-6	4	1968-84		L-13		PK-188
6	1965-88		240		PK-135	4	1968-84		L-16		PK-188
6	1990-91	4.0	244		PK-171	4	1968-84		L-18		PK-188
6	1980	4.1	250		PK-135	4	1985-86		M-10		PK-189
6	1965-88		250		PK-135	4	1980-86		Z-20		PK-188
6	1980-83	4.1	250		PK-208	4	1980-86		Z-22		PK-188
8	1962-88		255		PK-131	4	1980-86		Z-24		PK-188
8	1980-91	4.2	255		PK-131	6	1975-84		L-24		PK-188
8	1962-88		260		PK-131	6	1975-84		L-26		PK-188
8	1970-74		272		PK-9	6	1975-84		L-28E		PK-188
8	1962-88		289		PK-131	6	1983-86		VG-30		PK-188
8	1970-74		292		PK-9	6	1983-86		VG-30E		PK-188
6	1965-88		300		PK-135	6	1983-86		VG-30T		PK-188
6	1980-91	4.9	300		PK-135	OLDSMOBILE					
8	1962-88		302		PK-131	4	1982-91	1.8	112		PK-188
8	1980-91	5.0	302		PK-131	4	1982-92	1.8	112		PK-9
8	1970-74		312		PK-9	4	1982-91	2.0	121		PK-188
8	1958-78		330		PK-6	4	1982-92	2.0	121		PK-9
8	1958-78		332		PK-6						
8	1970-88		351C		PK-135						
8	1970-88		351M		PK-135						

Harmonic Balancer Woodruff Keys - Cont'd.

CYL.	YEAR	LITER	ENGINE C.I.D.	APPLICATION	PIONEER NUMBER	CYL.	YEAR	LITER	ENGINE C.I.D.	APPLICATION	PIONEER NUMBER
OLDSMOBILE - Cont'd.						PONTIAC - Cont'd.					
4	1982-92	2.2	134		PK-9	6	1982-88	4.3	260Z	1 Long Key (Chev. V-6)	PK-126
4	1987-92	2.3	138	Vin A, D	PK-210	6	1982-88	4.3	260Z	2 Short Keys	PK-9
4	1987-92	2.3	138	Vin A, D	PK-210	8	1982-92	4.3	260		PK-204
4	1980-84	2.5	151		PK-9	8	1976-92	4.4	267	1 Long Key	PK-126
4	1985-92	2.5	151		PK-9	8	1976-92	4.4	267	2 Short Keys	PK-9
6	1980-88	2.8	173		PK-9	8	1959-82		301		PK-126
6	1985-92	2.8	173		PK-131	8	1976-92	5.0	305	1 Long Key	PK-126
6	1976-92	3.0	181		PK-126	8	1976-92	5.0	305	2 Short Keys	PK-9
6	1985-92	3.1	189		PK-131	8	1978-92	5.0	307Y		PK-207
6	1976-92		196		PK-126	8	1982-92	5.0	307Y		PK-204
6	1989-92	3.3	204		PK-178	8	1959-82		326		PK-126
6	1991-92	3.4	207		PK-131	8	1976-92	5.7	350	1 Long Key	PK-126
6	1966-75		230		PK-9	8	1976-92	5.7	350	2 Short Keys	PK-9
6	1976-92	3.8	231		PK-126	8	1976-80		350H		PK-126
6	1966-75		250		PK-9	8	1976-80		350J		PK-126
6	1976-92	4.1	252		PK-126	8	1978-92	5.7	350N		PK-207
8	1964-88		260		PK-207	8	1959-82		350P		PK-126
8	1982-92	4.3	260		PK-204	8	1978-92	5.7	350R		PK-207
8	1977-92	4.4	267	1 Long Key	PK-126	8	1976-80		350X		PK-126
8	1977-92	4.4	267	2 Short Keys	PK-9	8	1959-82		389		PK-126
8	1979-82	4.9	301		PK-126	8	1959-82		400		PK-126
8	1977-92	5.0	305	1 Long Key	PK-126	8	1978-92		403		PK-207
8	1977-92	5.0	305	2 Short Keys	PK-9	8	1959-82		421		PK-126
8	1964-88	5.0	307Y		PK-207	8	1959-82		428		PK-126
8	1982-92	5.0	307Y		PK-204	8	1959-82		455		PK-126
8	1964-88		330		PK-207	TOYOTA					
8	1977-92	5.7	350	1 Long Key	PK-126	4	1979-86		1AC		PK-189
8	1977-92	5.7	350	2 Short Keys	PK-9	4	1984-86		1CTL		PK-181
8	1964-88	5.7	350N		PK-207	4	1974-86		20R		PK-189
8	1964-88	5.7	350R		PK-207	4	1974-86		22R		PK-189
8	1964-88		400	Except 1975	PK-207	4	1974-86		22REC		PK-189
8	1964-88		403		PK-207	4	1984-86		2CTL		PK-181
8	1964-88		425		PK-207	4	1979-86		2L		PK-181
8	1964-88		455		PK-207	4	1979-86		2LT		PK-181
PONTIAC						4	1970-83		2TC		PK-189
4	1976-88	1.4	85		PK-181	4	1979-86		3A		PK-189
4	1976-88	1.6	98	T-1000	PK-181	4	1979-86		3AC		PK-189
4	1982-91	1.8	112		PK-188	4	1980-84		3B		PK-189
4	1982-92	1.8	112		PK-9	4	1968-84		3K		PK-189
4	1982-91	2.0	121		PK-188	4	1968-84		3KC		PK-189
4	1982-92	2.0	121		PK-9	4	1964-70		3RC		PK-189
4	1982-92	2.2	134		PK-9	4	1970-83		3TC		PK-189
4	1988-92	2.3	138		PK-210	4	1984-86		3YEC		PK-189
4	1978-88	2.5	151		PK-9	4	1982-86		4AC		PK-189
4	1985-92	2.5	151		PK-9	4	1982-86		4AGEC		PK-189
6	1980-88	2.8	173		PK-9	4	1982-86		4AGELC	PK-189	
6	1985-92	2.8	173		PK-131	4	1982-86		4ALC		PK-189
6	1975-92	3.0	181		PK-126	4	1968-84		4KE		PK-189
6	1985-92	3.1	189		PK-131	4	1984-86		4YEC		PK-189
6	1975-92		196		PK-126	4	1969-74		8R		PK-189
6	1982-88		200	1 Long Key (Chev. V-6)	PK-126	4	1980-78		B		PK-189
6	1982-88		200	2 Short Keys	PK-9	4	1968-84		KC		PK-189
6	1992	3.3	204		PK-126	4	1979-86		L		PK-181
6	1991-92	3.4	207		PK-187	6	1969-84		F, 2F		PK-189
6	1982-88	3.8	229	1 Long Key (Chev. V-6)	PK-126	VOLKSWAGEN					
6	1982-88	3.8	229	2 Short Keys	PK-9	4	1959-86			Air Cooled	PK-D
6	1968-75		230		PK-9						
6	1975-92	3.8	231		PK-126						
6	1968-75		250		PK-9						
6	1975-92	4.1	252		PK-126						
8	1978-92		260		PK-207						

Harmonic Balancer Repair Sleeves



ASSORTMENT CONTENTS

HB-102-A

1 – HB-1121
1 – HB-2121
1 – HB-2122
1 – HB-3121
1 – HB-3122
8 – HB-4121
1 – HB-4122
2 – HB-4123
1 – HB-4124

HB-3122-A

18 – HB-3122

HB-4121-A

18 – HB-4121

-- SPECIFICATIONS --

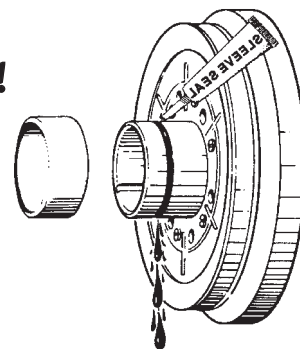
PIONEER NUMBER	OUTSIDE DIAMETER	INSIDE DIAMETER	DEPTH OR LENGTH	THICKNESS
HB-1121	1.815/1.817	1.771/1.779	0.855/.875	0.0190
HB-2121	2.278/2.280	2.230/2.242	0.775/.795	0.0190
HB-2122	2.216/2.218	2.178/2.180	1.02/1.04	0.0190
HB-2123	2.278/2.280	2.240/2.242	0.910/930	0.0190
HB-2124	2.216/2.218	2.178/2.180	1.16/1.18	0.0190
HB-3121	1.843/1.845	1.745/1.747	0.640/660	0.0190
HB-3122	1.909/1.911	1.871/1.873	0.720/.740	0.0190
HB-3123	1.910/1.912	1.872/1.874	0.600/.620	0.0190
HB-3124	1.909/1.911	1.871/1.873	0.910/930	0.0190
HB-4121	1.795/1.797	1.757/1.759	0.830/.850	0.0190
HB-4122	1.903/1.905	1.865/1.867	1.015/1.035	0.0190
HB-4123	2.366/2.368	2.328/2.330	0.780/.800	0.0190
HB-4124	2.031/2.033	1.993/1.998	0.720/.730	0.0190
HB-4125	2.404/2.406	2.366/2.371	0.785/.795	0.0190
HB-4126	2.030/2.032	1.992/1.994	0.510/.530	0.0190
HB-4127	1.795/1.797	1.757/1.759	1.03/1.05	0.0190
HB-4128	1.903/1.905	1.865/1.867	1.16/1.18	0.0190
HB-4129	2.366/2.368	2.328/2.330	1.365/1.385	0.0190

Harmonic Balancer Repair Sleeves - Cont'd.

Stop Your Leak!

Save your Harmonic Balancer
with a Pioneer Harmonic Balancer Repair Sleeve!

- Easy to install, no special tools required
- Can be installed in minutes Economical way to repair oil leaks
- Includes Sleeve Sealant



Refer to application chart.

MAKE & ENGINE	LITRE	CYL	YEAR(S)	PIONEER NUMBER	MAKE & ENGINE	LITRE	CYL	YEAR(S)	PIONEER NUMBER
AMC - Includes Jeep					GENERAL MOTORS - Cont'd.				
134 F	2.2L	4	1950-73	HB-3121	265 Buick/Olds/Pontiac	4.3L	8	1980-81	HB-4128
134 L	2.2L	4	1941-65	HB-3121	265 Chevy	4.4L	8	1955-57	HB-4121
148	2.5L	4	ALL	HB-3121	267 Buick/Olds/Pontiac	4.4L	8	1979-82	HB-4121
151	2.5L	4	1980-84	HB-4121	273 Cadillac	4.5L	8	1988-92	HB-4126
161 F	2.7L	4	1950-56	HB-3121	283 Chevy	4.6L	8	1957-67	HB-4121
161 L	2.7L	4	1950-56	HB-3121	292 Chevy	4.8L	6	1963-89	HB-4121
173	2.8L	6	1984-87	HB-4127	300 Cadillac	4.9L	8	1991-93	HB-4126
196	3.2L	6	1958-65	HB-1121	301 Buick/Olds/Pontiac	4.9L	8	1977-81	HB-4128
199	3.3L	6	1965-70	HB-1121	302 Chevy	5.0L	8	1966-73	HB-4121
232	3.8L	6	1965-79	HB-1121	305 (Except C) Chevy	5.0L	8	1976-93	HB-4121
242	4.0L	6	1987-91	HB-1121	305 C GMC Truck	5.0L	8	1960-75	HB-4125
258	4.2L	6	1965-90	HB-1121	305	5.0L	8	1977-87	HB-4121
290	4.8L	8	1967-69	HB-4124	307 Y Buick, Oldsmobile, Pontiac, Cadillac	5.0L	8	1980-90	HB-4124
304	5.0L	8	1970-81	HB-4124	307 Chevy	5.0L	8	1966-73	HB-4121
343	5.6L	8	1967-69	HB-4124	326 Pontiac	5.3L	8	1963-67	HB-4128
360	5.9L	8	1970-90	HB-4124	327 Chevy	5.4L	8	1962-69	HB-4121
390	6.4L	8	1968-70	HB-4124	330 Olds	5.4L	8	1964-67	HB-4124
401	6.6L	8	1971-76	HB-4124	348 Chevy	5.7L	8	1958-65	HB-4121
GENERAL MOTORS					350 Chevy	5.7L	8	1967-99	HB-4121
112	1.8L	4	1982-86	HB-4121	350 N Diesel	5.7L	8	1978-85	HB-4126
121	2.0L	4	1983-91	HB-4121	350 R Buick/ Oldsmobile, Pontiac/Cadillac	5.7L	8	1977-80	HB-4124
151	2.5L	4	1977-98	HB-4121	350 P Pontiac	5.7L	8	1968-77	HB-4128
173 S.W. X, Y, Z, 1.7, 9 FWD	2.8L	6	1980-93	HB-4127	351 GMC Truck	5.7L	8	1960-73	HB-4125
173 auto. trans. FWD	2.8L	6	1987-89	HB-4131	366 Chevy	6.0L	8	1966-91	HB-4123
173 manual trans.	2.8L	6	1987-89	HB-4131	379 GMC Truck	6.2L	8	1973-74	HB-4125
191	3.1L	6	1989-99	HB-4131	381 Diesel Chevy	6.2L	8	1982-91	HB-4129
194 Chevy	3.2L	6	1962-67	HB-4121	389 Pontiac	6.4L	8	1959-66	HB-4128
200 Chevy	3.3L	6	1978-79	HB-4121	390 Cadillac	6.4L	8	1963	HB-4124
204 Buick/Pontiac/Chevy	3.3L	6	1991-92	HB-4146	394 Olds	6.5L	8	1959-64	HB-4124
215 Pontiac	3.5L	6	1964-65	HB-4121	396 (402) Chevy	6.6L	8	1965-70	HB-4123
216 Chevy	3.5L	6	1938-53	HB-4121	400 Olds	6.6L	8	1965-69	HB-4124
229 Chevy	3.8L	6	1980-84	HB-4121	400 Small Block Chevy	6.6L	8	1970-80	HB-4121
230 Chevy	3.8L	6	1963-70	HB-4121	400 Pontiac	6.6L	8	1967-79	HB-4128
231 late full circle seal	3.8L	6	1990-99	HB-4146	400	6.6L	8	1975-80	HB-4123
231 Chevy	3.8L	6	1976-78	HB-4121	401 GMC Truck	6.6L	8	1960-65	HB-4125
235 Chevy	3.9L	6	1941-62	HB-4121	401 Diesel, GMC Truck	6.6L	8	1966-73	HB-4125
250 Chevy	4.1L	6	1966-76	HB-4121	403	6.6L	8	1977-79	HB-4124
252 Buick	4.1L	6	1980-84	HB-4126	409 Chevy	6.7L	8	1961-65	HB-4123
252 Cadillac	4.1L	6	1982-88	HB-4124	421 Pontiac	6.9L	8	1963-66	HB-4128
260 Diesel	4.3L	6	1979-85	HB-4126	425 Olds	7.0L	8	1965-67	HB-4124
260 Buick/Pontiac	4.3L	6	1975-82	HB-4124	427 Chevy	7.0L	8	1966-91	HB-4123
261 Chevy	4.3L	6	1954-62	HB-4121	428 Pontiac	7.0L	8	1967-69	HB-4128
262 Chevy	4.3L	8	1975-76	HB-4121	429 Cadillac	7.0L	8	1964-67	HB-4124
262 Chevy/Pontiac	4.3L	8	1985-99	HB-4121					

Harmonic Balancer Repair Sleeves - Cont'd.

MAKE & ENGINE	LITRE	CYL.	YEAR(S)	PIONEER NUMBER	MAKE & ENGINE	LITRE	CYL.	YEAR(S)	PIONEER NUMBER
GENERAL MOTORS - Cont'd.					FORD - Cont'd.				
432 Diesel Chevy	7.1L	8	1973-74	HB-4125	281	4.6L	8	1991-99	HB-3123
454 Chevy	7.4L	8	1970-98	HB-4123	289	4.7L	8	1963-68	HB-3124
455 Olds	7.5L	8	1968-76	HB-4124	292	4.8L	8	1957-64	HB-4128
455 Pontiac	7.5L	8	1970-76	HB-4128	300	4.9L	6	1965-95	HB-3123
478 GMC Truck	7.8L	8	1964-65	HB-4125	302	5.0L	8	1968-97	HB-3124
478 Diesel Chevy	7.8L	8	1966-74	HB-4125	312	5.1L	8	1956-64	HB-4128
637 Diesel Chevy	10.4L	8	1966-72	HB-4125	330 HD	5.4L	8	1964-78	HB-4125
702 GMC Truck	12.0L	8	1960-65	HB-4125	330 MD	5.4L	8	1964-77	HB-3124
CATERPILLAR					332	5.4L	8	1958-63	HB-3122
3208 Diesel			1970-98	HB-4138	330 TRITON	5.4L	8	1998-99	HB-3123
CHRYSLER (Includes Dodge Truck & Chrysler Industrial)					351 C	5.8L	8	1970-74	HB-3124
156	2.6L	4	1981-87	HB-4165	351 M	5.8L	8	1975-81	HB-3124
170	2.8L	6	1961-69	HB-2123	351 W	5.8L	8	1969-97	HB-3124
198	3.2L	6	1970-74	HB-2123	352	5.8L	8	1958-67	HB-3124
225	3.7L	6	1961-87	HB-2123	360	5.9L	8	1968-76	HB-3124
239	3.9L	6	1986-95	HB-2124	361	5.9L	8	1968-74	HB-4125
251	4.1L	6	1953-69	HB-2123	370	6.2L	8	1968-91	HB-4125
273 Passenger Car	4.5L	8	1965-69	HB-2124	390	6.4L	8	1961-76	HB-3124
273 Truck	4.5L	8	1965-68	HB-2122	391	6.4L	8	1964-78	HB-4125
277	4.6L	8	1956-57	HB-2122	400	6.6L	8	1971-82	HB-3124
301	4.9L	8	1957	HB-2122	401	6.6L	8	1958-81	HB-4125
303 Canadian built	5.0L	8	1956-58	HB-2122	406	6.6L	8	1962-65	HB-3124
313 Canadian built	5.1L	8	1956-58	HB-2122	410	6.7L	8	1958-67	HB-3124
318	5.2L	8	1957-98	HB-2124	427	7.0L	8	1963-68	HB-3124
325	5.3L	8	1957	HB-2122	428 CJ	7.0L	8	1966-70	HB-3124
340	5.6L	8	1968-73	HB-2124	429	7.0L	8	1969-84	HB-4125
350	5.7L	8	1958	HB-2122	460	7.5L	8	1968-98	HB-3124
354 Hemi	5.8L	8	1955-UP	HB-2122	475	7.8L	8	1958-81	HB-4125
360	5.9L	8	1971-99	HB-2124	477	7.9L	8	1958-81	HB-4125
361	5.9L	8	1958-77	HB-2122	534	8.8L	8	1958-81	HB-4125
383	6.3L	8	1959-71	HB-2122	420 Diesel	6.9L	8	1983-87	HB-4155
392 Hemi	6.4L	8	1957-58	HB-2122	445 Diesel	7.3L	8	1988-98	HB-4155
400	6.6L	8	1972-79	HB-2122	FORD TRACTOR				
413	6.8L	8	1959-77	HB-2122	134	2.2L	4		HB-3122
426 Wedge	7.0L	8	1963-65	HB-2122	172	2.8L	4		HB-3122
426 Hemi	7.0L	8	1964-71	HB-2122	800 Series		4-6		HB-3122
440	7.2L	8	1966-80	HB-2122	900 Series		4-6		HB-3122
CONTINENTAL					4000 Series		4-6		HB-3122
69 Y Series		4		HB-4124	6000 Series		4-6		HB-3122
91 Y Series		4		HB-4124	INTERNATIONAL TRUCK & TRACTOR				
112 Y Series		4		HB-4124	C113		4		HB-3122
FORD					C123		4		HB-3122
140 HSC	2.3L	4	ALL	HB-4133	C135		4		HB-3122
144	2.4L	4	1960-64	HB-3121	100 Farmall		4		HB-3122
170	2.8L	6	1961-72	HB-3121	130 Farmall		4		HB-3122
171	2.8L	6	1979-86	HB-4144	140 Farmall		4		HB-3122
177	2.9L	6	1986-92	HB-4144	200 Farmall		4		HB-3122
183	3.0L	6	1986-98	HB-4140	230 Farmall		4		HB-3122
200	3.3L	6	1963-83	HB-3121	240 Farmall		4		HB-3122
215	3.5L	6	1952-53	HB-3122	152 - 198 Scout		4	ALL	HB-4155
221	3.6L	6	1962-63	HB-3124	304	5.0L	8	ALL	HB-4155
223	3.7L	6	1954-64	HB-3122	345	5.6L	8	ALL	HB-4155
230	3.8L	6	1982-97	HB-3124	392	6.4L	8	ALL	HB-4155
239	3.9L	6	1954	HB-4128	420	6.9L	8	1983-87	HB-4155
240	4.0L	6	1965-72	HB-3123	444	7.3L	8	1988-99	HB-4155
244	4.0L	6	1990-99	HB-4144	MACK TRUCK				
250	4.1L	6	1969-80	HB-3123	EN414 engine		8		HB-2122
255	4.2L	6	1980-82	HB-3124	EN441 engine		8		HB-2122
260	4.3L	6	1962-65	HB-3124	TOYOTA				
272	4.5L	6	1955-57	HB-4128	20 & 22 R Engines	2.2L / 2.4L	4	1974-96	HB-4133

PIONEER NUMBER	YEARS	MAKE	ENGINE
DA-10	1993	HYUNDAI	L4 1.5L 1495cc
DA-11	1993	HYUNDAI	L4 1.5L 1495cc
DA-12	1994-99	HYUNDAI	L4 1.5L 1495cc
DA-13	1990-94	HYUNDAI, MITSUBISHI	L4 1.5L 1468cc
DA-14	1989-91	HYUNDAI	L4 2.4L 2351cc
DA-15	1992-98	HYUNDAI	L4 1.6L, 2.0L
DA-16	1990-98	HYUNDAI	V6 3.0L 2972cc
DA-17	1988-97	TOYOTA	L4 1.6L, 1.8L
DA-18	2000-06	TOYOTA	L4 1.8L 1795cc
DA-19	1998-06	PONTIAC, TOYOTA	L4 1.8L (1794cc, 1795cc)
DA-20	1987-93	TOYOTA	L4 2.0L, 2.2L
DA-22	1992-01	TOYOTA	L4 2.0L, 2.2L
DA-23	2001-07	SCION, TOYOTA	L4 2.0L, 2.4L (2362cc, 2398cc)
DA-24	1984-89	TOYOTA	L4 2.0L, 2.2L
DA-25	1981-83, 86-87	TOYOTA	L4 2.2L, 2.4L
DA-28	1988-93	TOYOTA	L4 1.6L 1587cc
DA-29	1994-04	TOYOTA	L4 2.4L, 2.7L
DA-30	1992-93	LEXUS, TOYOTA	V6 3.0L 2959cc
DA-31	1994-06	LEXUS, TOYOTA	V6 3.0L (2959cc, 2995cc), 3.3L
DA-32	1995-04	TOYOTA	V6 3.4L 3378cc
DA-35	1991-99	DODGE, MITSUBISHI	V6 3.0L 181ci
DA-40	1995-99	NISSAN	L4 1.6L 1597cc
DA-41	1974-83	NISSAN	L6 2.6L, 2.8L
DA-63	1973-74	TOYOTA	L6 3.9L 3878cc
DA-64	1973-75	TOYOTA	L6 3.9L, 4.2L
DA-65	1976-87	TOYOTA	L6 4.2L 4227cc
DA-66	1988-92	TOYOTA	L6 4.0L 3956cc
DA-69	1987-91	TOYOTA	L4 1.6L 1587cc
DA-70	1978-95	TOYOTA	L4 2.2L, 2.4L
DA-80	1998-07	LEXUS, TOYOTA	V6 4.0L, V8 4.7L, 5.7L
DA-92	1995-08	HYUNDAI	L4 1.5L, 1.6L (1599cc, 1600cc)
DA-98	1992-95	HYUNDAI	L4 1.6L, 1.8L
DA-110	1992-05	HYUNDAI	L4 1.6L, 1.8L, 2.0L, 2.4L
DA-111	1998-04	KIA	L4 1.8L 1793cc
DA-112	1996-01	HYUNDAI	L4 1.8L, 2.0L
DA-113	2001-05	KIA	L4 1.5L, 1.6L
DA-115	1995-05	HYUNDAI	L4 1.5L, 1.6L
DA-122	1992-05	HYUNDAI	L4 2.0L, 2.4L
DA-123	1995-02	KIA	L4 2.0L 1998cc
DA-150	1987-90	DODGE, MITSUBISHI, PLYMOUTH	L4 1.5L 90ci
DA-151	1987-92	BUICK, CHEVROLET, OLDSMOBILE, PONTIAC	L4 2.5L 151ci
DA-152	1991-96	DODGE, EAGLE, MITSUBISHI, PLYMOUTH	L4 1.5L 90ci
DA-153	1999-08	HYUNDAI, KIA	V6 2.5L (2493cc, 2500cc), 2.7L
DA-160	1995-97	EAGLE	L4 2.0L 122ci
DA-161	1989, 1992-93	EAGLE, MITSUBISHI	L4 2.0L, 2.4L
DA-162	1999	MITSUBISHI	L4 1.8L 1834cc
DA-180	1993-02	FORD, MAZDA	V6 2.5L (152ci, 2497cc)
DA-185	1993-95	FORD, MAZDA	L4 2.0L (122ci, 1991cc)
DA-200	1960-72	FORD	L6 2.8L 170ci
DA-201	1963-83	FORD	L6 3.3L 200ci
DA-202	2000-03	CHRYSLER, DODGE, PLYMOUTH	L4 2.0L, 2.4L

PIONEER NUMBER	YEARS	MAKE	ENGINE
DA-203	1990-06	CHRYSLER, DODGE, PLYMOUTH	V6 3.3L, 3.8L
DA-204	2006-08	KIA	V6 3.3L, 3.8L
DA-205	1999-05	SUBARU	H4 2.0L, 2.2L
DA-207	2004-08	BUICK, CHEVROLET, PONTIAC	V6 3.4L, 3.5L (211ci, 213ci, 214ci), 3.9L
DA-214	2002-06	HYUNDAI, KIA	V6 3.5L (3497cc, 3500cc)
DA-215	2003-06	KIA	V6 3.5L 3497cc
DA-220	1994-97	ACURA, HONDA	L4 2.2L 2156cc
DA-222	1990-96	HONDA	L4 2.2L, 2.3L
DA-223	1995-99	DODGE, PLYMOUTH	L4 2.0L 122ci
DA-224	1998-99	ACURA	L4 2.3L 2254cc
DA-225	1998-05	HONDA	L4 1.7L (1668cc, 1700cc), 2.3L
DA-226	1994-97	HONDA, ISUZU	V6 3.2L 3165cc
DA-240	1984-90	AMERICAN MOTORS, JEEP	L4 2.5L 150ci
DA-242	1987-00	JEEP	L6 4.0L 242ci
DA-244	1990-05	FORD, MERCURY	V6 4.0L 245ci
DA-250	1999-09	SUBARU	H4 2.5L 2458cc
DA-258	1975-86	AMERICAN MOTORS, JEEP	L6 3.8L, 4.2L
DA-261	1989-99	EAGLE, MITSUBISHI, PLYMOUTH	L4 2.0L, 2.4L
DA-289	1963-68	FORD, MERCURY	V8 4.7L 289ci
DA-292	1973-89	CHEVROLET, GMC	L6 4.8L 292ci
DA-293	1973-89	GMC	L6 4.8L 292ci
DA-300	1989-94	DODGE, MITSUBISHI	V6 3.0L 181ci
DA-303	1997-05	CHRYSLER, DODGE, MITSUBISHI	V6 3.0L, 3.5L
DA-318	1972-93	CHRYSLER, DODGE, PLYMOUTH	V6 3.9L, V8 5.2L, 5.6L
DA-319	1995-00	CHRYSLER, DODGE	V6 2.5L 152ci
DA-321	2000-09	DODGE, JEEP	V6 3.7L (225ci, 226ci), V8 4.7L (285ci, 287ci)
DA-322	1993-04	CHRYSLER, DODGE, EAGLE, PLYMOUTH	V6 3.2L, 3.5L
DA-323	1993-97	CHRYSLER, DODGE, EAGLE	V6 3.3L 201ci
DA-324	1985-94	EAGLE, MITSUBISHI, PLYMOUTH	L4 1.6L, 1.8L, 2.0L
DA-325	1995-99	ITSUBISHI	L4 2.0L 122ci
DA-330	1975-77	FORD	V8 5.4L 330ci
DA-366	1966-67	CHEVROLET	V8 6.0L 366ci
DA-390	1973-76	FORD	V8 5.9L, 6.4L
DA-396	1966-75	CHEVROLET, GMC	V8 6.5L, 6.6L (400ci, 402ci), 7.0L
DA-400	1970-80	CHEVROLET, GMC	V8 6.6L (400ci, 402ci)
DA-400-HD	1970-80	CHEVROLET, GMC	V8 6.6L (400ci, 402ci)
DA-427	1966-70	CHEVROLET	V8 6.5L, 7.0L
DA-427-HD	1966-70	CHEVROLET	V8 6.5L, 7.0L
DA-440	1966-71	CHRYSLER, DODGE, PLYMOUTH	V8 7.2L 440ci
DA-740	1985-95	VOLVO	L4 2.3L 2316cc
DA-940	1989-93	VOLVO	L4 2.3L 2316cc
DA-1160	1991-01	FORD, MERCURY	L4 1.9L, 2.0L
DA-1260	1994-00	ITSUBISHI	V6 3.0L, 3.5L
DA-1300	1987-00	CHRYSLER, DODGE, PLYMOUTH	V6 3.0L 181ci
DA-1401	1992-94	FORD, MERCURY	L4 2.3L 140ci
DA-1460	1987-02	BUICK, CHEVROLET, OLDSMOBILE, PONTIAC	L4 2.3L (138ci, 140ci), 2.4L
DA-1595	1992-95	HONDA	L4 1.5L, 1.6L
DA-1605	1996-97	MAZDA	L4 2.0L 1991cc
DA-1606	1996-03	MAZDA	L4 1.6L, 1.8L, 2.0L (1991cc, 2000cc)
DA-1700	1996-02	SATURN	L4 1.9L 116ci

PIONEER NUMBER	YEARS	MAKE	ENGINE
DA-1731	1982-86	BUICK, CHEVROLET, OLDSMOBILE, PONTIAC	V6 2.8L 173ci
DA-1732	1987-94	BUICK, CADILLAC, CHEVROLET, OLDSMOBILE, PONTIAC	V6 2.8L, 3.1L
DA-1733	1982-87	CHEVROLET, GMC, JEEP, PONTIAC	V6 2.8L 173ci
DA-1735	1994-99	CADILLAC, OLDSMOBILE	V8 4.0L, 4.6L
DA-1736	1995-09	CHEVROLET, GMC, OLDSMOBILE	V6 4.3L 262ci
DA-1820	1995-06	FORD, MERCURY	V6 3.0L 182ci
DA-1821	1990-94	FORD, MERCURY	V6 3.0L 182ci
DA-1822	1995-09	FORD, MAZDA, MERCURY	V6 2.5L (155ci, 2497cc), 3.0L (182ci, 183ci, 2954cc)
DA-1823	1996-06	FORD, LINCOLN, MERCURY	V6 3.0L 182ci
DA-1824	1986-89	FORD, MERCURY	V6 3.0L (181ci, 182ci)
DA-1825	1995-01	INFINITI, NISSAN	V6 3.0L 2988cc
DA-1826	1997-07	FORD	V8 4.6L 281ci
DA-1827	2002-04	FORD	L4 2.0L (121ci, 122ci)
DA-1828	2000	FORD	V10 6.8L 415ci
DA-1829	1990-92	FORD	V6 3.0L 182ci
DA-1830	1996-99	FORD	V6 3.8L 232ci
DA-1831	1990-92	FORD	V6 2.9L 177ci
DA-1890	1982-93	BUICK, CHEVROLET, GMC, OLDSMOBILE, PONTIAC	V6 2.8L, 3.1L
DA-1893	1993-05	BUICK, CHEVROLET, OLDSMOBILE, PONTIAC	V6 3.1L, 3.4L
DA-1950	1993-95	FORD	V6 3.2L 195ci
DA-2000	1972-80	SAAB	L4 2.0L 1985cc
DA-2001	1984	SAAB	L4 2.0L 1985cc
DA-2003	1994-01	SAAB	L4 2.0L, 2.3L
DA-2004	1989-90	SAAB	L4 2.0L 1985cc
DA-2005	1989-90	SAAB	L4 2.0L 1985cc
DA-2006	1991-93	SAAB	L4 2.3L 2290cc
DA-2007	1994	SAAB	L4 2.3L 2290cc
DA-2008	1968-69	FORD, MERCURY	V8 5.0L 302ci
DA-2008-HD	1968-69	FORD, MERCURY	V8 5.0L 302ci
DA-2009	1969-74	FORD, MERCURY	V8 5.8L 351ci
DA-2009-HD	1969-74	FORD, MERCURY	V8 5.8L 351ci
DA-2070	1996-99	FORD	V8 3.4L 207ci
DA-2250	1960-87	CHRYSLER, DODGE, PLYMOUTH	L6 3.7L 225ci
DA-2311	1986-88	BUICK, OLDSMOBILE, PONTIAC	V6 3.8L 231ci
DA-2312	1987-91	BUICK, OLDSMOBILE, PONTIAC	V6 3.8L 231ci
DA-2312-HD	1987-91	BUICK, OLDSMOBILE, PONTIAC	V6 3.8L 231ci
DA-2313	1978-87	CHEVROLET, GMC, PONTIAC	V6 3.3L, 3.8L (229ci, 231ci), 4.3L
DA-2314	1990-92	BUICK, CHEVROLET, OLDSMOBILE, PONTIAC	V6 3.8L 231ci
DA-2314-HD	1991-94	BUICK, CHEVROLET, OLDSMOBILE, PONTIAC	V6 3.8L 231ci
DA-2315	1993-95	BUICK, CHEVROLET, OLDSMOBILE, PONTIAC	V6 3.8L 231ci
DA-2315-HD	1993-95	BUICK, CHEVROLET, OLDSMOBILE, PONTIAC	V6 3.8L 231ci
DA-2316	1995-05	BUICK, CHEVROLET, OLDSMOBILE, PONTIAC	V6 3.8L 231ci
DA-2318	1995-05	BUICK, CHEVROLET, OLDSMOBILE, PONTIAC	V6 3.8L 231ci

PIONEER NUMBER	YEARS	MAKE	ENGINE
DA-2320	1990-95	FORD, LINCOLN, MERCURY	V6 3.8L 232ci
DA-2321	1989-90	BUICK, OLDSMOBILE	V6 3.3L 204ci
DA-2322	1989-92	BUICK, OLDSMOBILE, PONTIAC	V6 3.3L 204ci
DA-2323	1993	BUICK, OLDSMOBILE, PONTIAC	V6 3.3L 204ci
DA-2324	1986-88	BUICK, OLDSMOBILE, PONTIAC	V6 3.8L 231ci
DA-2325	1995	OLDSMOBILE	V6 3.8L 231ci
DA-2326	1982-87	FORD	V6 3.8L 232ci
DA-2328	1992	BUICK, OLDSMOBILE, PONTIAC	V6 3.8L 231ci
DA-2332	1990-97	FORD, LINCOLN, MERCURY	V6 3.8L 232ci
DA-2500	1965-71	BUICK, CHEVROLET, GMC, OLDSMOBILE, PONTIAC	L6 4.1L 250ci
DA-2501	1965-74	BUICK, CHEVROLET, GMC, OLDSMOBILE, PONTIAC	L6 4.1L, 4.8L
DA-2502	1975-76	BUICK, CHEVROLET, GMC, OLDSMOBILE, PONTIAC	L6 4.1L 250ci
DA-2503	1977-84	CHEVROLET, GMC	L6 4.1L 250ci
DA-2621	1985-95	CHEVROLET, GMC, OLDSMOBILE	V6 4.3L 262ci
DA-2622	1993-96	CHEVROLET, GMC	V6 4.3L 262ci
DA-2801	1992-03	FORD, LINCOLN, MERCURY	V8 4.6L 281ci
DA-2802	1996-04	FORD, LINCOLN	V8 4.6L 281ci
DA-3000	1987-96	FORD	L6 4.9L 300ci
DA-3001	1997-04	CADILLAC, SATURN	V6 3.0L, 3.2L
DA-3002	1977-89	FORD	L6 4.9L 300ci
DA-3003	1977-89	FORD	L6 4.9L 300ci
DA-3005	1994-02	SAAB	V6 2.5L, 3.0L
DA-3006	1987-96	FORD	L6 4.9L 300ci
DA-3021	1984-95	FORD, LINCOLN, MERCURY	V8 5.0L 302ci
DA-3021-HD	1984-95	FORD, LINCOLN, MERCURY	V8 5.0L 302ci
DA-3022	1969-80	FORD, LINCOLN, MERCURY	V8 5.0L 302ci
DA-3023	1981	FORD	V8 5.0L 302ci
DA-3024	1996-01	FORD, MERCURY	V8 5.0L 302ci
DA-3026	1968-69	FORD, MERCURY	V8 5.0L 302ci
DA-3051	1977-93	BUICK, CADILLAC, CHEVROLET, GMC, OLDSMOBILE, PONTIAC	V8 5.0L, 5.7L
DA-3071	1969-95	CHEVROLET, GMC, OLDSMOBILE, PONTIAC	V8 5.0L, 5.4L, 5.7L
DA-3071-HD	1969-95	CHEVROLET, GMC, OLDSMOBILE, PONTIAC	V8 5.0L, 5.4L, 5.7L
DA-3072	1975-90	BUICK, CADILLAC, CHEVROLET, OLDSMOBILE, PONTIAC	V6, 4.3L, V8 4.3L, 5.0L, 5.7L, 6.6L
DA-3164	1994-97	HONDA	V6 3.2L 3165cc
DA-3165	1998-02	HONDA, ISUZU	V6 3.2L, 3.5L
DA-3270	1969-76	CHEVROLET, GMC	V8 4.3L, 5.0L (302ci, 307ci), 5.4L
DA-3270-HD	1962-69, 73, 75	CHEVROLET, GMC	V8 4.3L, 5.0L (302ci, 307ci), 5.4L, 6.5L
DA-3300	1997-00	FORD, LINCOLN	V8 5.4L 330ci
DA-3301	2001-06	FORD, LINCOLN	V8 5.4L 330ci
DA-3302	2001-05	FORD	V8 5.4L 330ci
DA-3502	1969-96	CHEVROLET, GMC	V8 5.7L 350ci
DA-3502-HD	1967-95	CHEVROLET, GMC, PONTIAC	V8 5.7L 350ci
DA-3504	1977-86	CHEVROLET, GMC	V8 5.0L, 5.7L
DA-3505	1993-97	BUICK, CADILLAC, CHEVROLET, PONTIAC	V8 4.3L, 5.7L
DA-3506	1996-02	CHEVROLET, GMC	V8 5.7L 350ci

PIONEER NUMBER	YEARS	MAKE	ENGINE
DA-3507	1998-06	CHEVROLET, PONTIAC	V8 5.7L, 6.0L
DA-3508	1997-05	CADILLAC, CHEVROLET	V8 5.7L (346ci, 350ci)
DA-3510	1999-09	BUICK, CADILLAC, CHEVROLET, GMC, HUMMER	V8 4.8L, 5.3L (323ci, 325ci), 6.0L
DA-3512	1975-81	FORD, MERCURY	V8 5.8L 351ci
DA-3512-HD	1969-81	FORD, LINCOLN, MERCURY	L6 3.3L, 4.9L, V8 5.0L, 5.8L 6.6L
DA-3513	1982-97	FORD, MERCURY	V8 5.8L 351ci
DA-3514	1970-71	FORD, MERCURY	V8 5.8L 351ci
DA-3515	1972-74	FORD, MERCURY	V8 5.8L 351ci
DA-3520	1992-96	CHEVROLET	V8 5.7L 350ci
DA-3521	1990-95	CHEVROLET	V8 5.7L 350ci
DA-3522	1996	CHEVROLET	V8 5.7L 350ci
DA-3523	1993-94	BUICK, OLDSMOBILE, PONTIAC	V6 3.8L 231ci
DA-3550	1985-94	SUBARU	H4 1.8L 1781cc
DA-3551	1996-99	SUBARU	H4 2.2L, 2.5L
DA-3601	1972-79, 1987-91	JEEP	V8 5.9L 360ci
DA-3602	1979-93	CHRYSLER, DODGE, PLYMOUTH	V8 5.9L 360ci
DA-3603	1994-03	DODGE	V8 5.9L 360ci
DA-3790	1982-93	CHEVROLET, GMC	V8 6.2L, 6.5L
DA-3950	1994-02	CHEVROLET, GMC	V8 6.5L 395ci
DA-3955	1988-02	CHEVROLET, GMC	V8 6.2L, 6.5L
DA-4159	1986-95	CADILLAC	V8 4.1L, 4.5L, 4.9L
DA-4451	1988-94	FORD	V8 7.3L 445ci
DA-4452	1995-03	FORD	V8 7.3L 445ci
DA-4541	1970-90	CHEVROLET, GMC	V8 7.4L 454ci
DA-4541-HD	1970-74, 1986-89, 1992	CHEVROLET, GMC	V8 7.4L 454ci
DA-4542	1991-93	CHEVROLET, GMC	V8 7.4L 454ci
DA-4543	1970-74, 1986-89, 1992	CHEVROLET, GMC	V8 7.4L 454ci
DA-4551	1968-79	BUICK, OLDSMOBILE, PONTIAC	V8 5.7L, 6.6L, 7.0L, 7.5L
DA-4551-HD	1967-79	PONTIAC	V8 6.6L 400ci
DA-4552	1968-79, 1984-90	BUICK, CADILLAC, OLDSMOBILE, PONTIAC	V8 5.0L, 5.7L, 6.6L (400ci, 403ci), 7.5L
DA-4601	1980-95	FORD	V8 7.5L 460ci
DA-4602	1996-97	FORD	V8 7.5L 460ci
DA-5252	1993-98	VOLVO	L5 2.3L, 2.4L
DA-9000	1985-94	SAAB	L4 2.0L 1985cc
DA-9001	1986-90	SAAB	L4 2.0L 1985cc
DA-9002	1985-90	SAAB	L4 2.0L 1985cc
DA-9003	1979-84	SAAB	L4 2.0L 1985cc
872001	1969-73, 1975-76	CHEVROLET, GMC, PONTIAC	V8 4.3L, 5.0L (302ci, 307ci), 5.4L
872002	1969-95	CHEVROLET, GMC, OLDSMOBILE, PONTIAC	V8 5.0L, 5.4L, 5.7L
872003	1993	CHEVROLET	V8 5.7L
872004	1970-80	CHEVROLET, GMC	V8 6.6L (400ci, 402ci)
872005	1966-70	CHEVROLET	V8 6.5L, 7.0L
872006	1970-90	CHEVROLET, GMC	V8 7.4L
872007	1975-81	FORD, LINCOLN, MERCURY	V8 5.8L
872008	1968-69	FORD, MERCURY	V8 5.0L 302ci
872009	1969-74	FORD, MERCURY	V8 5.8L
872010	1987-91	FORD	V8 5.0L

PIONEER NUMBER	YEARS	MAKE	ENGINE
872011	1968-79	BUICK, OLDSMOBILE, PONTIAC	V8 5.7L, 6.6L, 7.0L, 7.5L
872012	1991-01	CHEVROLET, PONTIAC	V8 5.7L 350ci
872013	1993-97	CHEVROLET, PONTIAC	V8 5.7L 350ci
872014	1997	MERCURY	V8 4.6L
872015	1992-95	CHEVROLET	V8 5.7L 350ci
872016	1993-95	CHEVROLET	V8 5.7L 350ci
872017	1968-97	FORD, LINCOLN, MERCURY	V8 7.0L, 7.5L
872018	1970-83	FORD, LINCOLN, MERCURY	V8 5.0L, 5.8L
872019	1963-68	FORD, MERCURY	V8 4.7L 289ci
872020	1972-93	CHRYSLER, DODGE, PLYMOUTH	V8 5.2L, 5.6L
872021	1962-69, 1973, 1975	CHEVROLET, GMC	V8 4.3L, 5.0L 307ci, 5.4L, 6.5L
872022	1984-95	CHEVROLET, GMC, PONTIAC	V8 5.0L, 5.7L
872023	1967-76, 80, 82, 87-95	CHEVROLET, GMC, PONTIAC	V8 5.7L 350ci
872024	1970-80	CHEVROLET, GMC, PONTIAC	V8 6.6L(400ci, 402ci)
872025	1966-69	CHEVROLET	V8 7.0L 427ci
872026	1970-74, 1986-89, 1992	CHEVROLET, GMC	V8 7.4L 454ci
872027	1969-81	FORD, LINCOLN, MERCURY	V8 5.8L 351ci
872028	1968-69	FORD, MERCURY	V8 5.0L 302ci
872029	1969-74	FORD, MERCURY	V8 5.8L 351ci
872030	1984-95	FORD, LINCOLN, MERCURY	V8 5.0L 302ci
872031	1967-79	PONTIAC	V8 5.7L, 6.6L, 7.5L
872032	1968-01	FORD, MERCURY	V8 5.0L, 5.8L
872034	1968-01	FORD, MERCURY	V8 5.0L, 5.8L
872035	1996-05	FORD	V8 4.6L 281ci
872036	1980-95	FORD	V8 7.5L 460ci
872037	1972-93	CHRYSLER, DODGE, PLYMOUTH	V6 3.9L, V8 5.2L, 5.6L
872038	1979-93	DODGE	V8 5.9L 360ci
872039	1966-71	CHRYSLER, DODGE, PLYMOUTH	V8 6.3L, 6.6L, 7.0L, 7.2L
872040	1966-71	CHRYSLER, DODGE, PLYMOUTH	V8 6.3L, 7.2L
872041	1998-01	CHEVROLET, PONTIAC	V8 5.7L 350ci
872042	1998-02	CHEVROLET, PONTIAC	V8 5.7L 350ci
872043	1993-97	CHEVROLET, PONTIAC	V8 5.7L 350ci
872044	1993-97	CHEVROLET, PONTIAC	V8 5.7L 350ci
872046	1970-75	CHEVROLET	V8 7.4L 454ci
872047	1993-97	CHEVROLET	V8 5.7L 350ci
872048	1970-79	BUICK, CHEVROLET, OLDSMOBILE, PONTIAC	V8 6.6L 400ci
872049	1996-97	CHEVROLET	V8 5.7L 350ci
872050	1998-01	CHEVROLET	V8 5.7L 350ci
872052	1997-00	FORD, LINCOLN	V8 5.4L 330ci
872053	1997-00	FORD, LINCOLN	V8 5.4L 330ci
872054	1972-91	CHRYSLER, DODGE, PLYMOUTH	V8 5.2L, 5.6L
872055	1998-01	CHEVROLET, PONTIAC	V8 5.7L 350ci
872056	1973-76	FORD	V8 6.4L 390ci
872057	1973-76	FORD	V8 6.4L 390ci
872058	1998-01	CHEVROLET	V8 5.7L 350ci

Technical Information

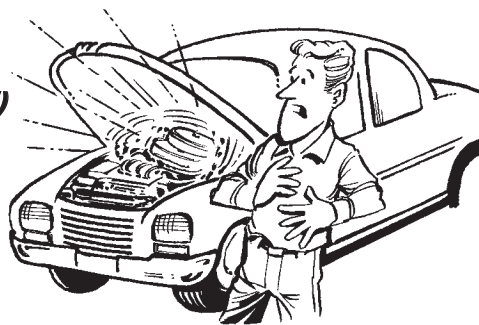
Harmonious & Balanced

(Or why the harmonic balancer is an engine's best friend)

The things you cannot see are often the things that can cause big problems.

So it is with a natural phenomenon known as "harmonics".

Harmonics are vibrations with specific and repeating patterns that pass through objects in response to something that affects it.



A simple example:

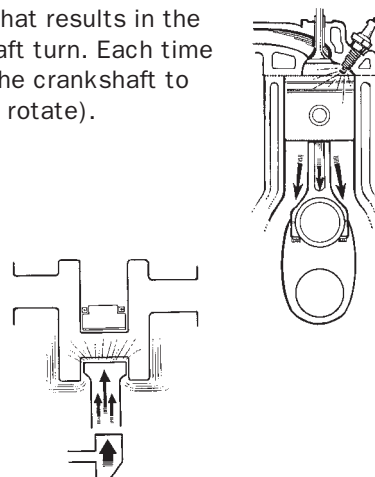
In your car or truck, if you encounter a stretch of road that has had the pavement removed prior to repaving, you can feel the vibrations that are passed through the chassis from the tires as they go over the ripples in the road. The annoying vibrations are a form of harmonics.

Your engine and harmonics

The operation of the engine creates many harmonics. The most significant of these comes from the action caused by the explosive combustion of the fuel-air mixture that results in the downward movement of the piston and connecting rod, making the crankshaft turn. Each time a cylinder fires, the connecting rod pounds the crank's journal as it forces the crankshaft to turn. The pounding from the connecting rods also makes it twist (as well as rotate).

After the twist stops, the energy it has created must be released. This pattern of twist cycling is known as torsional vibration, the most serious harmonic problem in the engine. If this torsional vibration is left unchecked, the crankshaft will be either seriously damaged or even cause it to break.

Multiplied by the number of cylinders, the problem is magnified. When cylinders are added, the harmonics that are occurring at different locations on the crank begin to conflict with each other. They may cancel each other, they may reinforce each other, or they may partially affect each other. Changes in engine speeds make the problem even worse, as the harmonics change speed and duration as they travel the length of the crank.



The Solution:

The Harmonic Balancer

The solution to these problems was the harmonic balancer or dampener.

The concept was a rather simple one. A two-piece disc was attached to the front of the crankshaft. A hub attached the balancer to the crankshaft and a cast-iron counter weight ring was bonded to the hub with high-strength Nitrile rubber.

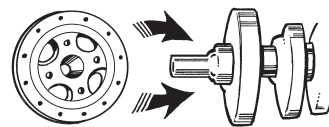
This design has been in use for many years by automakers, and is highly effective. The rubber allows the harmonic energy to be absorbed, lessening the torsional or twisting impact upon the crankshaft, and the distortion of the bearing journal surfaces. As a result, crankshaft and bearing life improved dramatically. Another popular design has been a single piece hub with an integrated counterweight.

Technical Info – Harmonious & Balanced – Cont’d.

The Solution: Cont’d.

Because of its location at the end of the crankshaft, the harmonic balancer has had an additional function - a mounting point for the accessory drive pulley. For many years, it had the accessory drive pulley attached to power belt-driven accessories (water pump, alternator, power steering pump, air conditioning). Recently, to save precious space in the engine bay, automakers turned the harmonic balancer into the pulley itself.

For many years, the engine's timing relied upon the timing marks stamped onto the outer ring of the balancer. When the engine needed a tune-up, the mechanic utilized the reference points on the balancer to adjust the distributor. Today, electronically controlled engines have made the balancer control the engine's timing. On many modern engines, the balancer may have either magnets or a gear-like device built in to trigger the firing of the spark plugs. However, the first function of the balancer must always be the suppression of the damaging harmonics.



Condition is critical

Why be so concerned about the Harmonic Balancer?

Unfortunately, the location of the balancer also impacts its condition and longevity. The Nitrile rubber that provides the energy-absorbing characteristics of the balancer is subject to one of the harshest environments on the vehicle. It is exposed to heat, cold, dirt, chemicals, oils, etc. Over time the rubber will begin to deteriorate, and the outer ring will begin to slip. As the ring slips the crank goes out of balance and on late model engines, the ignition timing may be adversely affected, which may result in burned pistons or valves due to incorrect timing.

Also, the job of driving the accessories adds stress to the balancer. The resistance generated by the various accessories and the harmonics from the belt(s) works against the balancer's design. Over time, this may cause the balancer hub to crack or the outer ring to warp. The cracking of the hub or the warping of the outer ring/pulley will cause premature belt failure, causing all accessories to stop functioning.

Unfortunately the design and installation of the harmonic balancer works against it. Since the balancer hub must pass through the front main seal, friction between the hub and the seal may cause a groove to be slowly worn into the precision-machined surface of balancer hub. Eventually, the groove will be deep enough for the seal to be broken and oil to begin to leak out. Oil will also work to deteriorate the Nitrile rubber in the balancer.

While a damaged harmonic balancer is a serious problem on any engine, on late model applications they are particularly serious. This is why inspection of the balancer is critical to protect the engine.

What are the signs of a failing balancer?

The failure of a harmonic balancer is a slow but progressive process.

Both service technicians and DIY-ers must carefully examine the balancer's condition to see if there are tell-tale signs of failure. Tiny cracks don't show themselves until they have become big ones. Deterioration of the rubber bond between the balancer's hub and the outer ring can be difficult to see.

Every time a vehicle is in for service, examine the balancer and its surroundings: The front main seal, accessory drive belts, the keyway of the balancer to the crankshaft, the drive pulley surface condition. Here are warning signs:

- A leaking front main seal.
- Visible deterioration of the rubber ring between the balancer hub and outer ring.
- Visible cracking or warping of the balancer hub or outer ring.
- A visible wobble of the balancer or the accessory drive pulley.
- Excessive engine vibration.
- Slipping/squealing drive belts, belt damage, accelerated belt wear, frequent belt replacement.
- A highly polished spot on pulley grooves (warped balancer).
- Elongation of the balancer keyway, or wear on the balancer hub/crankshaft.
- Accessory failure.
- On engines equipped with breaker point ignition, an engine that does not run properly when adjusting the timing.
- On late model electronically timed engines, poor performance and irregular idle.

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