

# VIBRATION DAMPERS

Professional  
Products®

## PowerForce and PowerForce+Plus Harmonic Dampers for street and racing.

### Special Features on all our Harmonic Dampers

1. Quality semi-gloss black paint finish.
2. Timing marks in easily viewed white markings.
3. Engraved marks every 90°.
4. Extreme accuracy on machining and balance.
5. Hub & ring bonded to elastomer.

**Powerforce™** street dampers are made from extremely tough nodular iron and are suitable for all street applications and mild (non SFI) racing applications. The **Powerforce™** dampers are designed to be safely revved to as high as 6,500 rpm. The **Powerforce+™** dampers are made from bullet-proof 1045 steel. They are safety rated for use on engine revving up to 10,000 rpm, are SFI approved and include spec card and SFI sticker. **Powerforce™** and **Powerforce+™** dampers are of the highest quality and are precision machined to tolerances tighter than OEM. They come with a gloss black paint finish and white timing marks for easier reading.



Application / Diameter	Int/Ext Balance	Part No. Powerforce	Weight	Price	Part No. (A, B) Powerforce+Plus SFI Approved	Weight	Price
<b>AMC</b>							
6.8" AMC V8 (304, 360 & 401 cid)	Ext	PRP-80101	10.60	\$87.95	PRP-90101	11.70	\$201.95
<b>SB CHEVY</b>							
6-3/4" 283/327/350 SB Chevy	Int	PRP-80000	8.46	\$41.95	PRP-90000	9.30	\$137.95
6-3/4" 400 SB Chevy	Ext	PRP-80001	7.59	\$54.95	PRP-90001	8.40	\$154.95
8" 350 SB Chevy	Int	PRP-80002	11.77	\$61.95	PRP-90002	12.20	\$160.95
8" 400 SB Chevy	Ext	PRP-80003	12.59	\$68.95	PRP-90003	12.90	\$178.95
7.5" LT-1 (Corvette, Camaro, Firebird, Impala, Caprice & Roadmaster)	Int	PRP-80030	12.30	\$94.95	PRP-90030	13.70	\$217.95
7.5" LS-1 Camaro, Firebird	Int	PRP-80032	13.60	\$75.95	PRP-90032	14.40	\$185.95
7.5" LS-1, LS-6 Corvette	Int	PRP-80033	11.20	\$75.95	PRP-90033	13.20	\$185.95
<b>BB CHEVY</b>							
8" 396/427 BB Chevy	Int	PRP-80004	13.51	\$75.95	PRP-90004	14.50	\$179.95
8" 454/502 BB Chevy	Ext	PRP-80005	14.56	\$79.95	PRP-90005	15.50	\$185.95
<b>SB CHRYSLER</b>							
7.3" 318/340/360 SB Chrysler (*4)	Int/Ext	PRP-80012 (*4)	8.12	\$73.95	PRP-90012 (*4)	9.00	\$175.95
<b>BB CHRYSLER</b>							
7.3" chrysler 383/400/413/426/440( *4,5)	Int/Ext	PRP-80013 (*4,5)	8.00	\$73.95	PRP-90013 (*4,5)	8.70	\$175.95
Spacer for 426 Hemi (Use w/PRP-80013 or PRP-90013)		PRP-81013	0	\$15.95	PRP-81013		\$15.95
<b>SB FORD</b>							
6.4" Early SB Ford (28.4 oz. in.) (*3)	Ext	PRP-80006 (*3)	9.52	\$73.95	PRP-90006 (*3)	10.25	\$173.95
6.4" Late SB Ford (50 oz. in.) Requires PRP-81007 spacer (*3)	Ext	PRP-80007 (*3)	10.06	\$73.95	PRP-90007 (*3)	11.00	\$173.95
.350" thick Spacer for SB Ford Optional		PRP-81006	0	\$14.95	PRP-81006		\$14.95
.950" thick Spacer for SB Ford Optional		PRP-81007	0	\$16.95	PRP-81007		\$16.95
.875" thick Spacer for SB Ford Optional		PRP-81008	0	\$17.95	PRP-81008		\$17.95
<b>4.6L FORD</b>							
6.8" 4.6L Ford Modular V8	Int	PRP-80011	6.10	\$73.95	PRP-90011	7.10	\$180.95

# VIBRATION DAMPERS



## PowerForce and PowerForce+Plus *Continued*

Application / Diameter	Int/Ext Balance	Part No. Powerforce	Weight	Price	Part No. (A, B) Powerforce+Plus SFI Approved	Weight	Price
<b>352-428 FE FORD</b>							
7.5" 352/390/406/427/428 BB FE Ford	Int	PRP-80009	11.87	\$88.95	PRP-90009	12.30	\$201.95
<b>429-460 FORD</b>							
6.7" 429-460 BB Ford	Int	PRP-80008	8.80	\$78.95	PRP-90008		\$177.95
<b>JEEP</b>							
7.2" 4.0L Jeep	Int	PRP-80100	7.10	\$65.95	N/A		—
<b>OLDSMOBILE</b>							
6.5" 350/400/403/425/455 Olds V8 (*7)	Ext	PRP-80022	9.50	\$68.95	PRP-90022	10.00	\$174.95
<b>PONTIAC</b>							
6.9" 1961-1979 Pontiac V8	Int	PRP-80020	8.25	\$66.95	PRP-90020	10.00	\$165.95

- A. All of the dampers in this column meet SFI Specification #18-1.
- B. This damper, and all 90000 Series, are 1045 steel. All other 80000 Series dampers are nodular iron. This is not an SFI-Spec damper. Use 90010.
- \*3. **IMPORTANT:** See SB Ford Damper for more extensive application information on these four damper part numbers.
- \*4. All Chrysler dampers are supplied as neutral balance dampers, but also include a series of bolt-in counterweights to suit the various Chrysler engines which use externally balanced dampers. Exact application information is contained in the instruction

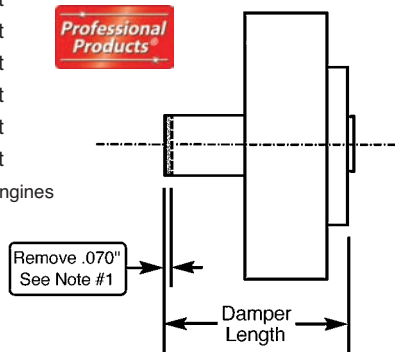
- sheets. Note that damper weights in chart above are without counterweights.
- \*5. These dampers fit all big block Chrysler engines plus both the street and race 426 Hemi. 426 Hemi engines require use of optional PRP-81013 spacer. Will not fit 331/354/392 early Hemi engine.
- 6. These counterweights apply to cast crank engines only.
- 7. 330 must have TDC re-marked. Early 400 & 425 require re-balancing.
- All dampers listed as "External" include all necessary counterweights. Counterweights also sold separately.

### SMALL BLOCK FORD PERFORMANCE DAMPER SPACER SELECTON CHART

Engine Type	Damper Length	Model Year	Use Spacer	3- or 4-Bolt Pulley
289/302/351W	3.050"	1963-1969	No Spacer Req'd	3-Bolt
351W/351C400M <sup>1,2</sup>	3.400"	1969-1980	PRP-81006 (.350")	4-Bolt
351 HO (351W) <sup>3</sup>	3.875"	1991 & later	PRP-81008 (.875")	4-Bolt
351W/302 <sup>3</sup>	3.875"	1991 & later	PRP-81008 (.875")	4-Bolt
302/5.0L	3.950"	1970-1996	PRP-81007 (.950")	4-Bolt
351W	3.950"	1980-1996	PRP-81007 (.950") PRP-81009 (.950") Steel for blown engines	4-Bolt

**NOTES:**

- 1. Remove .070" off of rear of damper if Ford .917" Crank Sprocket is used. See drawing at right.
- 2. A 3.187" damper length may have been used on some of the listed applications. This requires spacer modification. See modifications shown in instructions that come with the damper. Or download Damper Instruction booklet from www.professional-products.com.
- 3. The 3.875" long dampers are used on engines equipped with Ford Racing .917" Crank Sprocket.



### Small Block Ford Damper Spacers

Both small block Ford dampers are made to the early short length. To accommodate the various length dampers Ford has made for this engine family, three optional inexpensive aluminum spacers are offered to provide proper pulley alignment. This design provides maximum flexibility. It permits the installation of late engines in early chassis although the early pulleys and accessory brackets will need to be used. It also will allow you to install late pulleys and accessories on an early engine with the 28 oz. in. counterweight.

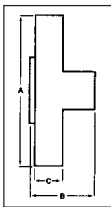


PRP-81006/.350" thick  
 PRP-81008/.875" thick  
 PRP-81007\*/.950 thick  
 \*Use spacer on all '86 and later 5.0L engines.

# BALANCERS / DAMPERS

## STOCK HARMONIC VIBRATION BALANCERS

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.



Some of the warning signs of harmonic balancer failure in a vehicle are:

- A leaking front main seal.
- Visible deterioration of the rubber between the balancer hub and outer ring.
- Visible cracking or warping of the balancer hub or outer ring.
- Visible wobble of the balancer or the accessory drive pulley.
- Excessive engine vibration.
- Slipping, squealing drive belts, belt damage, accelerated belt wear or frequent belt replacement.
- A highly polished spot on pulley grooves (warped balancer).
- Elongation of the balancer key way or wear on the balancer hub/crankshaft.
- Alternator, power steering pump, air conditioner or water pump failure.



# SUPER SAVER

## SFI APPROVED Liquid Damper



- CNC machined from billet stock.
- Precision balanced.
- Controls vibrations at all rpm's.
- Accurate & engraved timing marks.

- SFI Fluid Damper.
- Perfect for street/strip or full race engines.
- SFI approved for strength
- Fluid dampening eliminates engine harmonics.
- Available in chrome for great looks.
- Proven to increase horsepower and torque.

**PAW-FB350**® – SB Chevy 283-350 6.250" O.D. Internal Balance.

Your Choice . . . . . **\$109<sup>95</sup>**

**PAW-FB400**® – SB Chevy 400" 8.00" O.D. External Balance

Your Choice . . . . . **\$129<sup>95</sup>**

**PAW-FB427**® – BB Chevy 396,402,427 6.250" O.D. Internal Balance Special light-weight damper.

Your Choice . . . . . **\$129<sup>95</sup>**

**PAW-FB454**® – BB Chevy 454 8.00" O.D. External Balance

Your Choice . . . . . **\$129<sup>95</sup>**

① Do not attempt to balance the crank with liquid damper installed. Use damper installer & do not drill on damper.

PART NO.	APPLICATION	PRICE	PULLEY MTG HOLES	WEIGHT	A	B	C
PIO-DA3270	Chevy 1968-1973 307 6-1/4" dia. (GMC-3896903)	\$65.95	3	4.63 lb	6.12"	2.340"	.756"
PIO-DA3071	Chevy 262, 305 Vin H, 6-3/4" dia. Camaro 1987-1992 350 Vin 8 Corvette 1984-1991 Vin 8 (GMC-12551537)	\$64.95	3	8.16 lb	6.750"	2.340"	1.190"
PIO-DA3502	Chevy 350 1969-1992 350 8" dia. Car/Truck (GMC-6272222)	\$64.95	3	10.4 lb	8.01"	2.330"	1.319"
PIO-DA3505	Chevy 350 1993-1997 7.5" dia. Serpentine belt, Pass car, LT1 – No hub	\$89.95	3	8.14 lb	7.52"	1.33"	—
PIO-DA3506	Chevy 350 1996-2000 8" dia. Truck, Tahoe, Yukon (GMC-10243271)	\$94.95	3	10.14 lb	8.00"	2.24"	—
PIO-DA3507	Chevy 350 1998-2000 Gen III Eng., LT4, Camaro Firebird, Dual Serpentine belt – No hub	\$115.95	—	10.49 lb	7.52"	3.58" 7.24"	—
PIO-DA400	Chevy 400 SB 8" dia. (GMC-6272225)	\$69.95	3	10.51 lb	8.00"	2.330"	1.516"
PIO-DA396	Chevy Big Block 396, 427 8" dia. (GMC-3860008)	\$109.95	3	9.30 lb	8.00"	2.660"	1.710"
PIO-DA4541	Chevy Big Block 454 8" dia. 1970-1991 (GMC-10141212)	\$79.95	3	12.13 lb	8.00"	2.660"	1.730"
PIO-DA4542	Chevy Big Block 454 8" dia. 1991-1995 Truck Extra Cut (GMC10101160)	\$79.95	3	16.50 lb	8.00"	1.68"	—
PIO-DA318	Chrysler, dodge, Plymouth 318, 3.9, V6 1978-1991 (CHRY-4173443)	\$99.95	6	7.72 lb	7.240"	2.560"	—
PIO-DA2008	Ford 302, 6.5" dia. Raised pulley location 28 oz. counter weight. 1968-1970	\$99.95	3	9.20 lb	6.500"	3.18"	—
PIO-DA3022	'69-'80 302 Passenger/Truck 28 oz counter weight (Ford D8T26316B)	\$109.95	4	11.04 lb	6.400"	4.11"	1.500"
PIO-DA3021	Ford 302 5.0 H.O., EFI 6.5" dia. 1984-1995 (Ford E4T26316A) 50 oz. counter weight	\$109.95	4	9.04 lb	6.400"	4.11"	1.500"
PIO-DA3023	Ford 302 Truck only 6.39" dia. 1981-2000 9/16" Step, 50 oz. counter weight (Ford E1T26316D)	\$109.95	4	9.04 lb	6.390"	4.13"	—
PIO-DA2009	Ford 351W 6.5" dia. counter sunk pulley location 28 oz. counter weight (Ford E4T26316B)	\$109.95	3	11.4 lb	6.500"	3.020"	—
PIO-DA3513	Ford 351W 1988-1996 6.3" dia. Pass/Trk Degreed 11/16" step (Ford E8T26316B)	\$79.95	4	7.28 lb	6.390"	4.11"	1.250"
PIO-DA3512	Ford 351C 1968-1983 6.5" dia. (Ford D7A26316C)	\$95.95	4	9.24 lb	6.490"	3.380"	—
PIO-DA4601	Ford 460 Pass, Truck 6.65" dia. with weight (Ford D9T26316C)	\$99.95	4	8.280 lb	6.650"	2.44"	—
PIO-DA4602	Ford 460 Pass, Truck 6.65" dia. (GMC-3860008)	\$99.95	4	8.29 lb	6.650"	2.380"	—
PIO-DA4551	Pontiac 301-455 6.79" dia. 1968-1977 (GMC-477682)	\$94.95	4	6.60 lb	6.790"	3.06"	—

# HARMONIC DAMPERS



## HARMONIC DAMPERS

The ultimate in crankshaft vibration dampers at an affordable price.

### PRO/RACE FEATURES:

- "All Steel" construction.
- Exceeds SFI Spec #18-1.
- 100% NC machined to exacting tolerances.
- 60° of engraved timing marks (40° on SB Ford models).



PSP-64265

**RACE SERIES** dampers are a superior upgrade to stock replacement dampers. The feature forged steel inertia rings, and billet steel or forged steel hubs. 60 degrees of engraved timing marks provide accurate timing. Race Series damper meet the SFI spec 18-1 for use in most race sanctioning bodies.

Pro/Race **STREET/STRIP** dampers offer the same high quality standards as the Race Series but are NOT SFI approved.

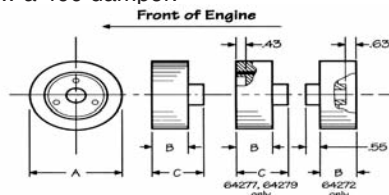
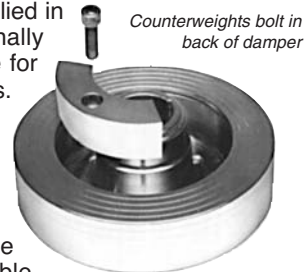
**CHEVROLET DAMPERS** feature a removable counterweight design allowing the same damper to fit externally or internally balanced engines by simply adding or removing the counterweights.

Pro/Race **SUPERCHARGER DAMPERS** are available for big and small block Chevy engines. Their all steel construction make the ideal for these applications. In addition, they also include dual keyways and six tapped holes

### REMOVABLE COUNTERWEIGHTS

Harmonic dampers are supplied in two styles: those for internally balanced engines and those for externally balanced engines. Externally balanced engines typically have an extra counterweight added to the damper. A unique feature of certain models of the Pro/Race Damper is that the counterweights are removable.

This means, for example, if you have a Pro/Race Damper for a 400 small block Chevy you can remove the counterweight and the damper will work perfectly for a 350 Chevy. Conversely, if you have a 350 Damper and want to use it on a 400 you can now purchase the proper Pro/Race counterweight and bolt it into your 350 damper and it is now a 400 damper.



\*Bonding on "Race" models only.

PART NUMBERS AND APPLICATIONS					DIMENSIONS			
PART #	APPLICATION	STYLE	TYPE	WGT.	A	B	C	PRICE
PSP-64262	Chevrolet V8 283-350	Street/Strip	Int.	10.37	6.61	1.65	2.33	\$219.95
PSP-64263	Chevrolet V8 396-427	Street/Strip	Int.	13.21	7.01	1.85	2.68	\$259.95
PSP-64264	Chevrolet V8 454-502	Street/Strip	Ext.	14.53	7.01	1.85	2.68	\$275.95
PSP-64265	Chevrolet V8 283-350	Race	Int.	10.37	6.61	1.65	2.33	\$230.95
PSP-64266	Chevrolet V8 400	Race	Ext.	11.56	6.61	1.65	2.33	\$259.95
PSP-64267	Chevrolet V8 396-427	Race	Int.	13.21	7.01	1.85	2.68	\$279.95
PSP-64268	Chevrolet V8 454-502	Race	Ext.	14.53	7.01	1.85	2.68	\$299.95
PSP-74265	Dual keyway 64265 for supercharger use	Race	Int.	10.37	6.61	1.65	2.33	\$304.95
PSP-74267	Dual keyway 64267 for supercharger use	Race	Int.	13.21	7.01	1.85	2.68	\$329.95
PSP-64277	Chrysler V8 273-340 ('72 & earlier)	Race	Int.	11.34	7.01	1.54	2.87	\$304.95
PSP-64278	Chrysler V8 360 (Aftermarket Steel crankshafts only)	Race	Ext.	12.26	7.01	1.54	2.87	\$304.95
PSP-64279	Chrysler V8 383-440 Including Hemi****	Race	Int.	11.03	7.01	1.54	2.24	\$304.95
PSP-64269	Ford V8 289-351 (All except late 5.0L) – 28 oz.	Race	Ext.	11.80	6.61	1.65	3.00	\$304.95
PSP-64270	Ford V8 5.0L 1981 & later – 50 oz.	Race	Ext.	12.10	6.61	1.65	3.00	\$304.95
PSP-64271	Ford 4.6L V8 '96 & later – Race	Race	Ext.	10.25	6.61	1.65	2.20	\$340.95
PSP-64272	Ford V8 429-460	Race	Ext.	10.25	6.61	1.65	2.20	\$309.95
PSP-64275	Pontiac V8 '61-'79***	Race	Int.	9.83	6.61	1.38	2.83	\$329.95

Weights are in pounds, dimensions are in inches.

\*Counterweights will fit Street/Strip, race and Supercharger models.

\*\*\*To fit '61-'68 requires '69 model timing chain cover.

\*\*\*\*Fits Chrysler 440 forged crank, 361-383 "B" engine forged cranks ('62-'70) and 413-426. Also fits race and Street Hemi with slight TDC adjustment as detailed in instructions and supplied with damper.