

1997 COMPETITION PARTS CATALOG



This catalog has not been updated since 1996, except for some minor editing to correct some part numbers or show items which are definitely no longer available. Any numbers which are still available, would still be good in this catalog.

You can click directly on the VIEW CART button when logged into the Motorsports site to enter these numbers. They will NOT in some cases show up on the keyword search box.

If you see an item which has a different description on the Mazdaspeed Motorsports website, than in this catalog - believe the website. Some part numbers have been 'recycled'.

Open the bookmarks tab on the upper left for an index.

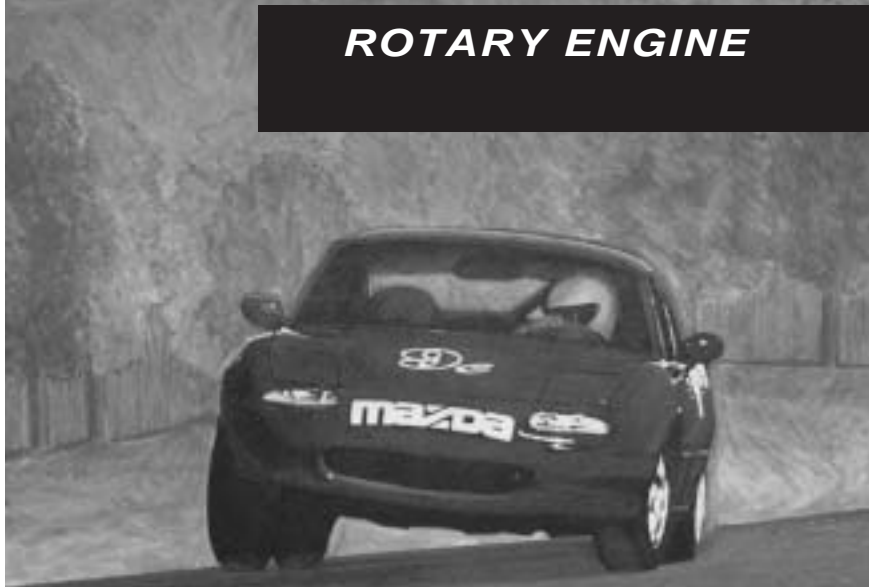


\$9.00

mazda®



ROTARY ENGINE



Competition Apex Seal Information

Carbon apex seals and Iannetti Advanced Carbon seals are recommended for any engine that will see 8000 rpm and above. They weigh significantly less than the stock (cast iron) apex seals and provide lower mass, keeping the apex seal in contact with the rotor housing face at high rpm. At high rpm, the stock (cast iron) seal overcomes the spring, causing the seal to skip across the rotor housing surface, reducing engine performance. Cast iron seals also can warp at high rpm.

Iannetti Advanced Carbon Apex Seals

Design

The two (2) spring design allows for a higher spring pressure which helps improve chamber sealing. This design feature allows the engine to be run with a higher degree of timing before "TDC," retarding the onset of pre-ignition or detonation and effectively increasing the engine's horsepower capabilities. The insignificant wear characteristics of the material allows the use of almost double the apex spring pressure than could be used with other stock or carbon apex seals. This capability also contributes to better sealing, thereby improving the containment of the combustion chamber pressures, which in turn, assists in preventing the onset of detonation.

Material

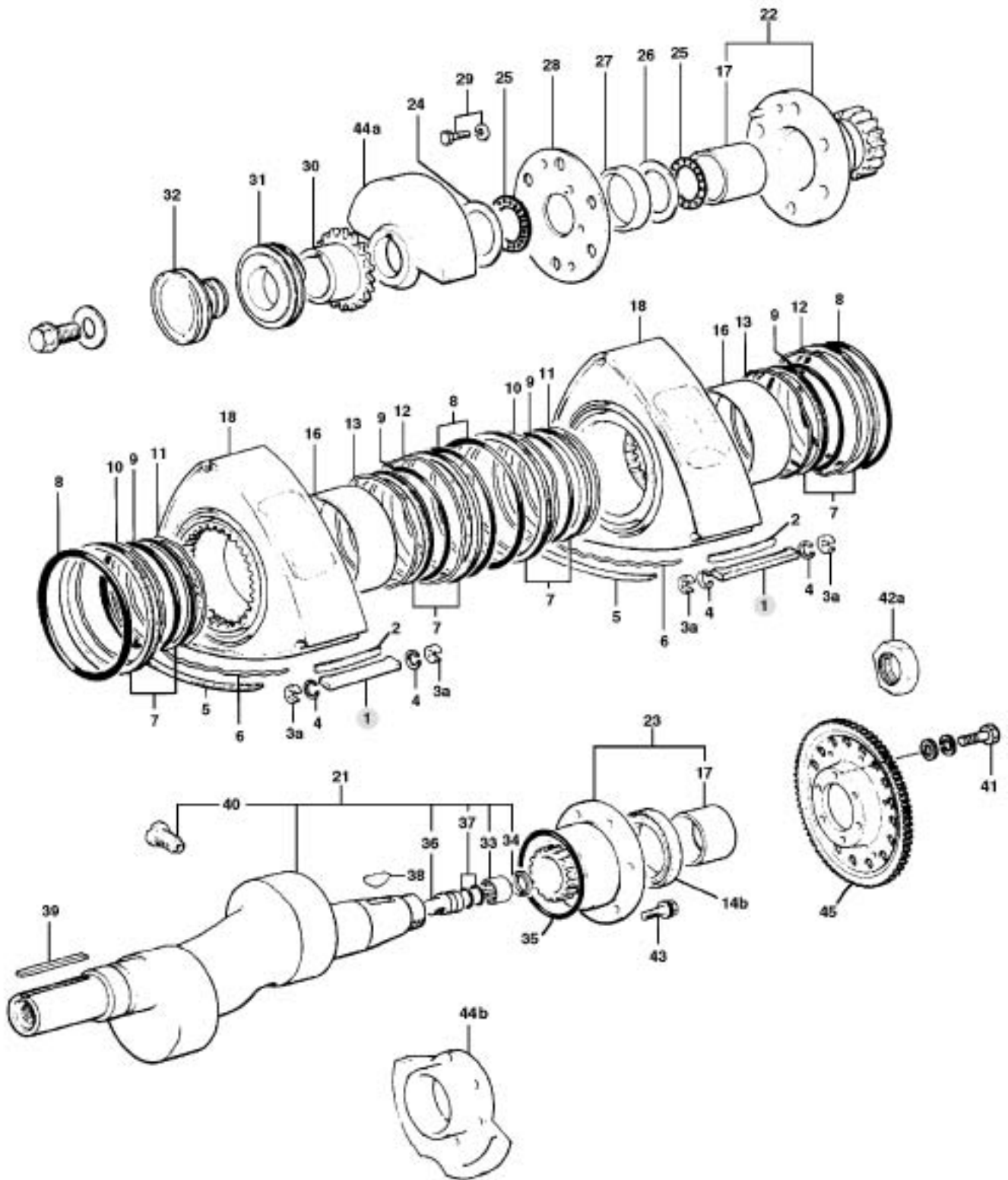
The apex seal material exhibits the following qualities: high strength, low friction and lightweight (lower than ferrous-based seals).

Recent material composition improvements have been made, especially in the case of the 2 mm Iannetti apex seal used for turbo applications. The Iannetti 2 mm seal can handle over 50% more stress on the apex seal beam cross-section than the 3 mm stock seal for normally aspirated 13B engines.


Benefits

- Provides excellent sealing characteristics at all temperatures
- Withstands damaging engine detonation
- Will not absorb moisture when engine is being stored
- Ideal for turbo applications
- Iannetti seals have been used by most major professional teams in the world:
 - Winner of the 1994 IMSA World Sports Car Championship, Wayne Taylor – Team Downing/Atlanta.
 - 3rd in Class at the 24 Hours of Le Mans, 1995 - MazdaSpeed – Team Downing/Atlanta.
 - 3rd overall at the Rolex 24 Hours of Daytona, 1996 – Team Downing/Atlanta.
 - 1st in Class at the 24 Hours of Le Mans, 1996 - MazdaSpeed – Team Downing/Atlanta.

Rotary Engine Components



ROTARY ENGINE COMPONENTS

ITEM NO.	PART NUMBER	CODE	# REQ.	DESCRIPTION	MODEL/ ENGINE TYPE	YEAR	NOTES
I	4352-11-301	C	6	Apex Seal, Carbon (3 mm width)	I2A	1974-85	Requires use of competition apex seal springs. (Part #4352-11-304)
I	0000-01-9101		6*	Apex Seal, Iannetti Ceramic (3 mm width)	I2A	1974-85	3 mm width - 2 spring design. Requires use of modified springs.
I	N201-11-300A	S	6	Apex Seal (3 mm width)	I2A	1974-85	Includes side piece. (Part #1202-11-302)
I	4801-11-301	C	6	Apex Seal, Carbon (3 mm width)	I3B	1974-85	Requires use of competition apex seal spring. (Part #ZR03-11-C04; 3 mm width)
I	0000-01-9102		2*	Apex Seal, Iannetti Ceramic (3 mm width)	I3B	1974-85	3 mm width - 2 spring design. Requires use of modified springs (included).
I	N304-11-300	S	6	Apex Seal (3 mm width)	I3B	1974-85	Includes side piece. (Part #1202-11-302; 3 mm width).
I	0000-01-9103		2*	Apex Seal, Iannetti Ceramic (2 mm width)	I3B	1986-95	2 mm width - 2 spring design. Requires use of modified springs (included).
I	0000-01-9105		2*	Apex Seal, Iannetti Advanced Carbon (3 mm width)	I3B	1986-95	3 mm width - 2 spring design. Seal design is similar to "9103" seal, but is made for turbo applications. Requires use of modified springs.
I	N3F1-11-C00	S	6	Apex Seal (2 mm width)	I3B	1986-95	3-piece design includes side piece. (Part #N326-11-C02A)

 = NEW! Competition Part

NT = Non-Turbo

T = Turbo

TT = Twin-Turbo (93-95 RX7)

*Iannetti Advanced carbon apex seals are sold in sets of six (6) only.

NOTE: Carbon and Iannetti Advanced carbon apex seals must be used in conjunction with the proper apex seal springs.

Iannetti Advanced Carbon Apex Seals require two (one short/one long) apex springs. Springs come with Iannetti Ceramic seals.

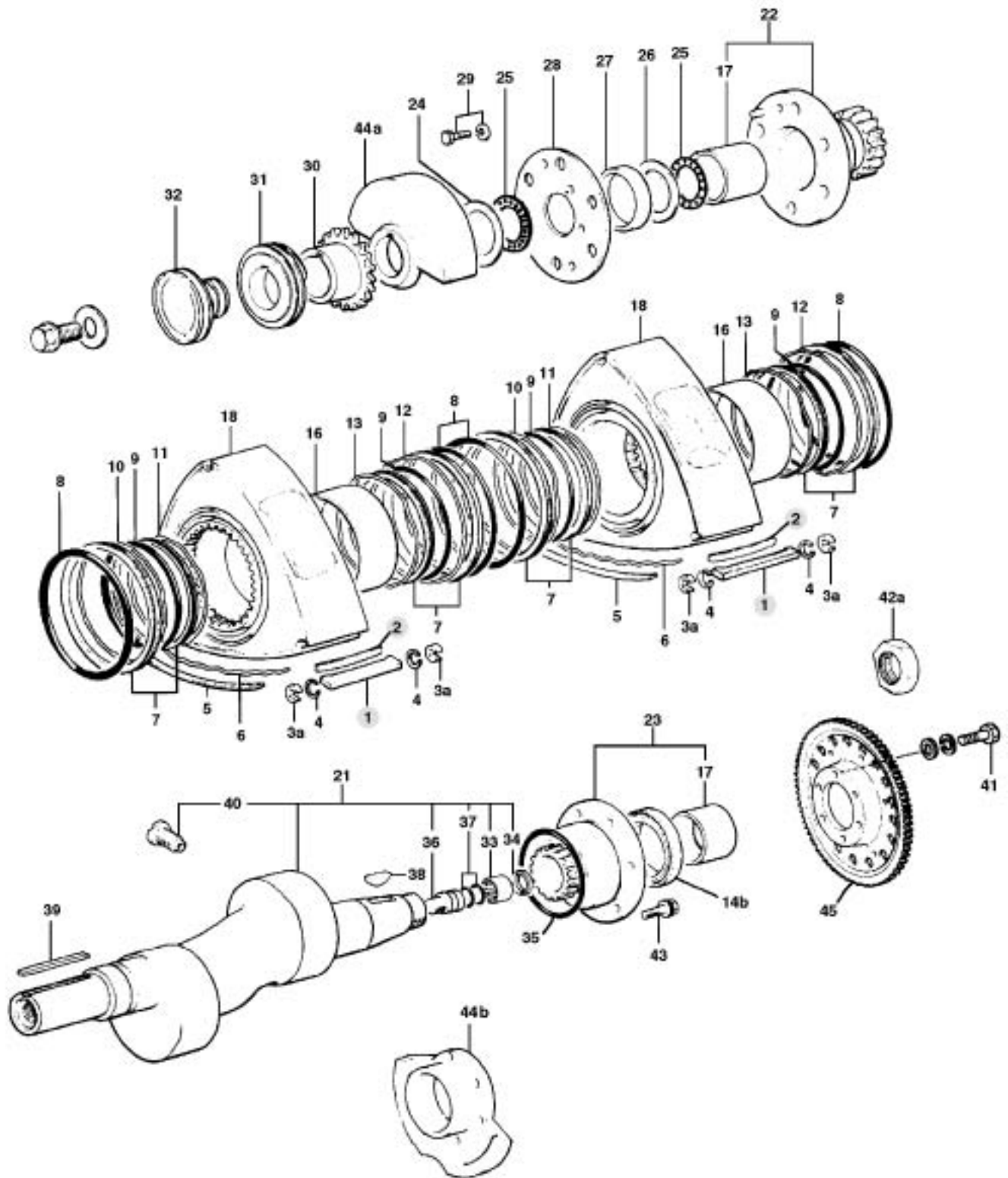
Please follow the information provided below for correct fitment and to achieve ideal sealing characteristics:

I2A (Part #0000-01-9101 – 3 mm) - Use Part #1757-11-304 for both springs. Inner (short) spring must be cut to 52 mm length. Outer (long) spring must be cut to 65 mm length. Taper ends to 15 degree angle.

I3B (Part #0000-01-9102 – 3 mm) - Use Part #1757-11-304 for both springs. Inner (short) spring 3 mm must be cut to 58 mm length. Outer (long) spring must be cut to 74 mm length. Taper ends to 15 degree angle.

I3B (Part #0000-01-9103 – 2 mm) - Inner (short) spring must be cut to 58 mm length. Outer (long) spring must be cut to 74 mm length. Taper ends to 15 degree angle. (NOTE: The stock Apex Spring (Part #N326-11-C06A) is used for the springs (cut inner to 58 mm length).

Rotary Engine Components, continued ...



ROTARY ENGINE COMPONENTS, *continued ...*

ITEM NO.	PART NUMBER	CODE	# REQ.	DESCRIPTION	MODEL/ ENGINE TYPE	YEAR	NOTES
1	I202-11-302	S	6	Side Piece - Apex Seal	I2A & I3B	1974-85	Not shown in diagram. For use with apex seal. (Part #N201-11-300A or Part #N304-11-300) Side piece comes with apex seal.
1	N326-11-C02A	S	6	Side Piece - Apex Seal	I3B ALL	1986-95	Not shown in diagram. For use with apex seal. (Part #N3F1-11-C00) Side piece comes with apex seal.
2	4352-11-304	C	6	Spring - Apex Seal	I2A	1974-85	For use with carbon apex seal only.
2	I011-11-304B	S	6	Spring - Apex Seal	I2A	1974-85	
2	ZR03-11-C04	C	6	Spring - Apex Seal	I3B	1974-85	For use with carbon apex seal only.
2	N326-11-C06C		6	Spring - Apex Seal	I3B ALL	1986-95	For use with 2 mm Iannetti Ceramic apex seal. (Part #0000-01-9103 & 9105)
2	I757-11-304	S	6	Spring - Apex Seal	I3B	1974-85	
2	N326-11-C04A	S	6	Spring - Apex Seal	I3B ALL	1986-95	Inner spring
2	N326-11-C06C	S	6	Spring - Apex Seal	I3B ALL	1986-95	Outer spring

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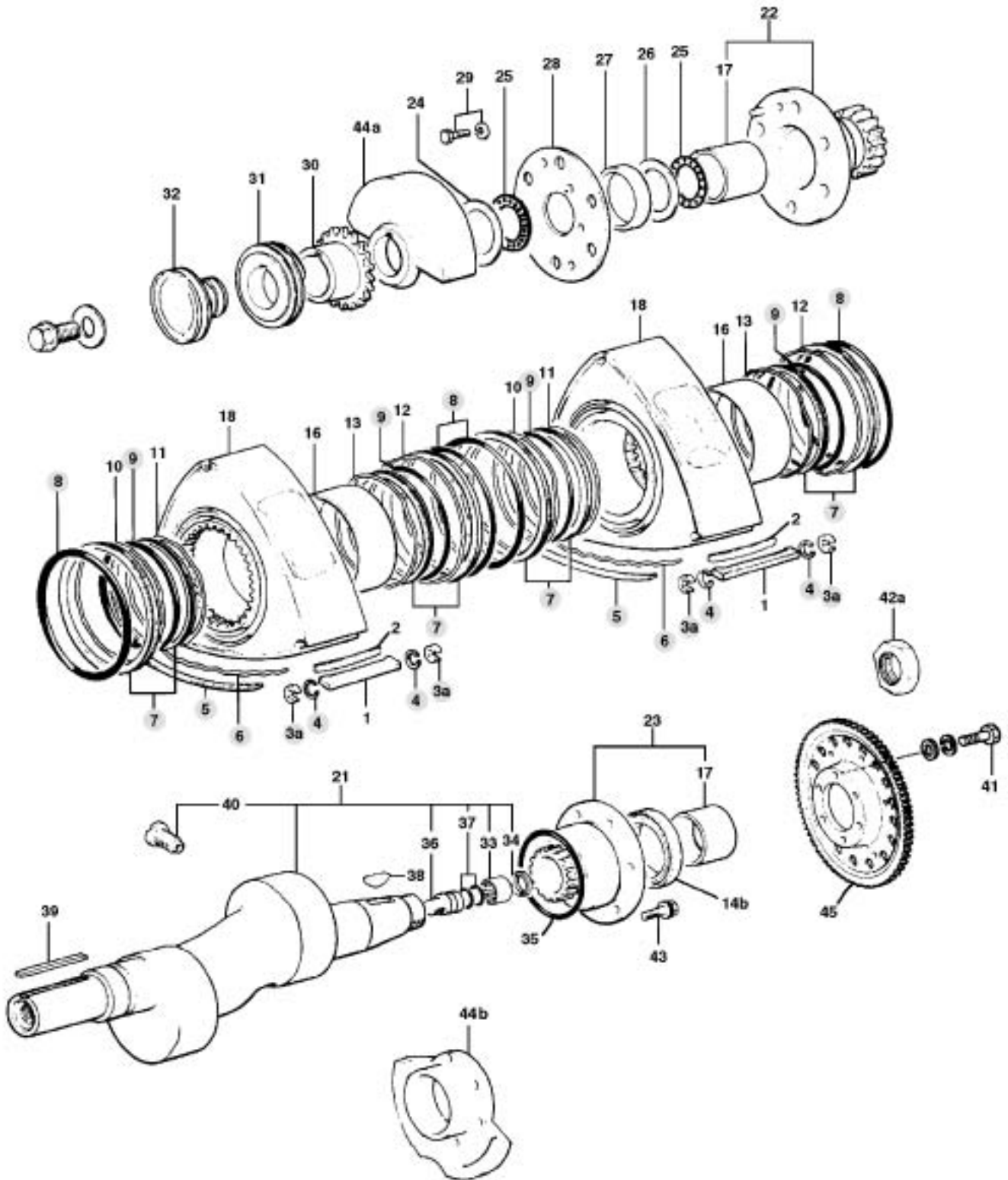


Apex Seal Tech Tips

(See page TT-13-15 in the Engine Technical Tips section of this catalog.)



Rotary Engine Components, continued ...



ROTARY ENGINE COMPONENTS, *continued ...*

ITEM NO.	PART NUMBER	CODE	# REQ.	DESCRIPTION	MODEL/ ENGINE TYPE	YEAR	NOTES
3a	I011-11-321	S	12	Corner Seal	12A & 13B	1974-85	Solid-type
3a	N225-11-321	S	12	Corner Seal	12A & 13B	1976-85	2-piece plug-type design. Requires use of corner seal plug. (Part #N201-11-322) Plug not included.
3a	N326-11-C20A	S	12	Corner Seal	13B ALL	1986-95	2-piece plug-type seal. Plug included with corner seal.
3a	ZR03-11-C21	C	18	Corner Seal	20B	ALL	
3a	N201-11-322	S	12	Plug - Corner Seal	12A & 13B	ALL	Not shown in diagram. For use with corner seal. (Part #N225-11-321) Does not come with corner seal.
3a	N326-11-C22A	S	12	Plug - Corner Seal	13B ALL	1986-95	Not shown in diagram. Plug included with corner seal.
4	I202-11-323A	S	12	Spring - Corner Seal	12A & 13B NT & T	1973-91	Wire-type spring. Use of Part #NF01-11-C24 recommended.
4	NF01-11-C24	S	12	Spring - Corner Seal	13B TT	1993-95	Recommended for all 12A & 13B applications. Retains strength under high temperatures better than wire-type design.
5	8871-23-151	C	12	Side Seal - Pre-Cut	12A & 13B	1974-85	Eliminates much of the cutting and filing required. Pre-cut to approximate length required.
5	I011-23-151A	S	12	Side Seal	12A & 13B	1974-85	
5	N3Y1-11-C11	S	12	Side Seal	13B ALL	1986-95	
6	0820-11-317	S	12	Spring - Side Seal	12A & 13B	1974-85	
6	N326-11-C17	S	12	Spring - Side Seal	13B ALL	1986-91	
6	NF01-11-C17	S	12	Spring - Side Seal	13B TT	1993-95	
7	8871-23-180	S	4	Oil Seal Set (Steel)	12A & 13B	ALL	
8	I202-11-343	S	4	O-Ring (Outer) - Oil Seal	12A & 13B	ALL	
9	0820-11-341	S	4	O-Ring (Inner) - Oil Seal	12A & 13B	ALL	

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Corner Seal Tech Tips

(See page TT-16 in the Engine Technical Tips section of this catalog.)

Side Seal Tech Tips

(See page TT-12 in the Engine Technical Tips section of this catalog.)

Rotary Engine Components, *continued ...*

