

Subject: Micro-V[®] XF belts – PJ profile

For many years the PJ profile was only used for industrial applications, especially in the “white goods” sector, as drive belts for washing machines and tumble dryers.

More recently, these small Micro-V belts were introduced in the automotive industry, where the main applications are ventilator (fan) drives. Usually the basic engine configuration only has 1 fan, which is electrically driven (system installed on radiator) (Fig. 1).



Fig. 1: Electrically driven fan

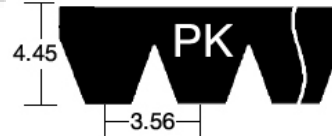


Fig. 2: PJ belt

In case additional cooling is needed (cars with air conditioning, with a factory installed tow bar, for taxis, etc), a second fan is installed, in order to pull more cooling air through the radiator. This second fan is then often driven from the first by a 2 or 3 rib PJ belt.

Up to now only VAG and Mercedes are using this kind of belt.

The main difference between a PK and a PJ belt is the size of the rib profile: a PJ profile is quite a bit smaller than a PK profile, the rib width only being 2.34 mm compared to 3.56 mm, while the height is 3.6 mm compared to 4.45 mm.



It is clear that a PJ belt cannot function under the same loads as a PK belt. But that is not required on these applications. A compact drive is what is needed in the restricted front-end compartment.

Apart from the normal wear, replacement is mainly needed after the bearing of one of the fans has failed, or after an accident (fans are very close to the front of the car).

On installation, belts have to be 'pulled' over the second fan pulley by force, as there is no adjustment on the drive.

For the different sizes available in our Micro-V XF programme, and for an overview of their applications, please see attached file.

More detailed application information can be found in our catalogues, and full logistics data are available from the AR Partner's website.

Please don't hesitate to contact us should you require any further information on this subject.

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PJ_belt_application_overview

Article	Make	Model	Strokes	Years
2PJ786	VOLKSWAGEN	Passat	1.6/1.8/2.0/1.6D/1.9D	04/88-09/93
8653-10523	VOLKSWAGEN	Passat Estate/Variant	1.6/1.8/2.0/1.6D/1.9D	04/88-09/93
	VOLKSWAGEN	Passat Van	1.6/2.0/1.6D/1.9D	04/88-09/93
2PJ800	SEAT	Toledo	1.6/1.8/2.0/1.9D	05/91-10/98
8653-10524	VOLKSWAGEN	Golf	1.8/2.0/2.8/1.9D	08/91-09/97
	VOLKSWAGEN	Golf Cabrio	1.8/2.0/1.9D	09/93-12/01
	VOLKSWAGEN	Golf Estate/Variant	1.8/2.0/1.9D	08/91-05/99
	VOLKSWAGEN	Golf Van (Hatchback)	1.8/2.0/1.9D	08/91-09/97
	VOLKSWAGEN	Golf Van (Variant)	1.8/1.9D	08/93-12/99
	VOLKSWAGEN	Passat	1.6/1.8/2.0/2.8/1.6D/1.9D	04/88-10/96
	VOLKSWAGEN	Passat Estate/Variant	1.6/1.8/2.0/2.8/1.6D/1.9D	04/88-10/96
	VOLKSWAGEN	Passat Van	1.6/2.0/1.6D/1.9D	04/88-09/93
	VOLKSWAGEN	Polo	1.4/1.6	09/94-08/99
	VOLKSWAGEN	Polo Classic	1.4/1.6/1.9D	11/95-08/99
	VOLKSWAGEN	Polo Estate/Variant	1.4/1.6/1.9D	05/96-08/99
	VOLKSWAGEN	Polo Van (Hatchback)	1.4	08/97-12/99
	VOLKSWAGEN	Polo Van (Variant)	1.4/1.6/1.9D	08/97-07/01
	VOLKSWAGEN	Vento	2.0	08/95-12/97
2PJ836	AUDI	80	2.0/1.9D	08/88-07/96
8653-10525	AUDI	80 Quattro	2.0	08/88-07/96
	AUDI	100 Quattro	1.8	09/84-11/90
	AUDI	Cabriolet	2.0	01/93-10/98
	AUDI	Coupe	1.8/2.0	08/82-06/96
	VOLKSWAGEN	Passat	1.8	09/82-03/88
2PJ845	VOLKSWAGEN	Passat	1.6/1.8/2.0/2.8/1.9D	04/88-04/97
8653-10526	VOLKSWAGEN	Passat Estate/Variant	1.6/1.8/2.0/2.8/2.9/1.9D	04/88-06/97
	VOLKSWAGEN	Passat Van	1.8/2.0/1.9D	08/93-04/97
2PJ860	MERCEDES	A210	2.1	02/02>
8653-10528	MERCEDES	A21 AMG	2.1	02/02>
	MERCEDES	E200	2.0/2.0D	07/95-07/00
	MERCEDES	E220	2.2D	07/95-05/98
	MERCEDES	E230	2.3	07/95-10/97
	MERCEDES	E240	2.4	04/97-07/00
	MERCEDES	E250	2.5D	07/95-07/00
	MERCEDES	E280	2.8	07/95-05/03
	MERCEDES	E290	2.9D	07/95-08/99
	MERCEDES	E300	3.0D	07/95-09/99
	MERCEDES	E320	3.2/3.2D	07/95-05/03
	MERCEDES	E420	4.2	07/95-10/97
	MERCEDES	E430	4.3	04/97-05/03
	MERCEDES	E50 AMG	5.0	09/96-10/97
	MERCEDES	E55 AMG	5.4	01/97-05/03
	SEAT	Cordoba	1.6/1.8/2.0/1.9D	10/93-04/99
	SEAT	Cordoba Vario	1.6/1.9D	05/97-03/02
	SEAT	Ibiza	1.6/1.8/2.0/1.9D	02/93-02/02
	SEAT	Toledo	1.6/2.0/1.9D	05/91-10/98
	VOLKSWAGEN	Caddy	1.6/1.7D/1.9D	11/95-01/04
	VOLKSWAGEN	Corrado	2.9	08/91-05/95
	VOLKSWAGEN	Golf	1.8/2.0/2.8/1.9D	08/91-09/97
	VOLKSWAGEN	Golf Cabrio	1.8/2.0	09/93-04/98

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2PJ860 continued	VOLKSWAGEN	Golf Estate/Variant	1.8/2.0/1.9D	08/91-05/99
	VOLKSWAGEN	Golf Van (Hatchback)	1.8/2.0/1.9D	08/91-09/97
	VOLKSWAGEN	Golf Van (Variant)	1.8/1.9D	08/93-12/99
	VOLKSWAGEN	Passat	2.8/1.6D/1.9D	04/88-10/96
	VOLKSWAGEN	Passat Estate/Variant	2.8/1.6D/1.9D	04/88-10/96
	VOLKSWAGEN	Passat Van	1.6D/1.9D	04/88-09/93
	VOLKSWAGEN	Polo	1.4/1.6	09/94-08/99
	VOLKSWAGEN	Polo Classic	1.4/1.6/1.9D	11/95-08/99
	VOLKSWAGEN	Polo Estate/Variant	1.4/1.6/1.9D	05/96-08/99
	VOLKSWAGEN	Polo Van (Hatchback)	1.4	08/97-12/99
	VOLKSWAGEN	Polo Van (Variant)	1.4/1.6/1.9D	08/97-07/01
	VOLKSWAGEN	Vento	2.0	08/95-12/97
2PJ896	VOLKSWAGEN	Campmobile	2.0	09/90-05/98
8653-10529	VOLKSWAGEN	Transporter	1.8/2.0	09/90-04/96
2PJ905	VOLKSWAGEN	Passat	2.8/1.9D	04/88-10/96
8653-10530	VOLKSWAGEN	Passat Estate/Variant	2.8/2.9/1.9D	04/88-06/97
	VOLKSWAGEN	Passat Van	1.9D	10/93-10/96
3PJ891	MERCEDES	CL500	5.0	09/99-07/03
8653-10531	MERCEDES	S280	2.8	02/99-08/05
	MERCEDES	S320	3.2	02/99-08/02
	MERCEDES	S430	4.3	09/98-08/05
	MERCEDES	S500	5.0	07/00-08/05
	MERCEDES	S55 AMG	5.4	09/99-08/02