



VKM 68001

Technical Bulletin - October 2010



Subaru Forester, Impreza, Legacy



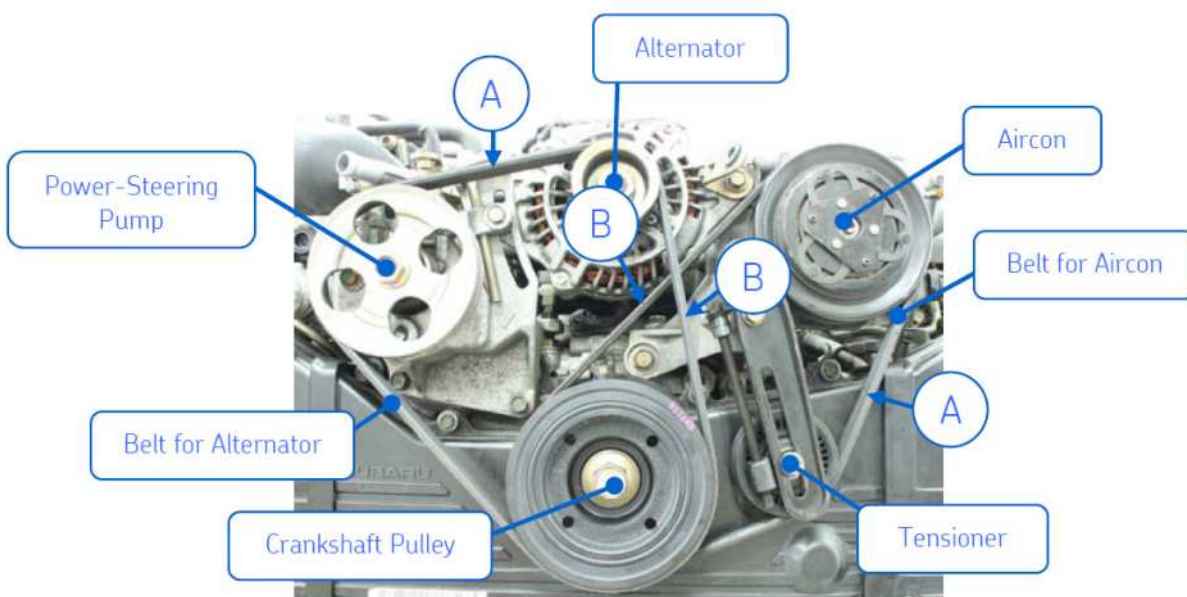
Technical Information: VKM 68001



When installing new accessory drive system parts, it is important to follow an approved belt tension process to achieve the correct tension range. Subaru offers two methods which are applicable for SKF VKM 68001 and the respective VKMV belt.

If the technician is equipped with a belt tension gauge, inspect the belt tension for both belts at point A. However if a belt tension gauge is not available, you may substitute this method by measuring the deflection of both the belts at point B instead. Note - repeat the test at least 2 to 3 times for each point to gauge the consistency of the results.

Location of Measure	Alternator Belt	Aircon Belt
Point A (with Belt Tension gauge)	490N - 640N	350N - 450N
Point B (without Belt Tension gauge)	9 mm - 11 mm	9 mm - 10 mm



Auxiliary Layout of a typical Subaru boxer engine



Crankshaft Damper

Aftermarket power pulley are known to increase power for acceleration but however this may be achieved at the expense of the longevity of the engine components like tensioner and idlers due to the excessive vibrations. Power pulleys mostly come in lightweight and without true harmonic damping capability (the rubber portion within the pulley is absent). This type of design can bring more power to the car but at the same time compromising the harmonic balance of the crankshaft. Take note that installing an aftermarket power crankshaft pulley which is not according to the OE specifications can result in premature engine breakdown at a later stage. Such incidents will affect parts warranties and prenotice should be serve to the customer.



Aftermarket Power Pulleys vs OE Crankshaft Damper

Subaru OE Special Tools

Use Subaru OE Tool ST499977400 to lock and turn crankshaft while servicing the crankshaft damper and auxiliary system.



Crankshaft tool fit firmly onto OE damper



SKF offers a complete range of VKMV belts for Subaru

Do not need to compromise on different belt length, for SKF offers the exact length according to OE equivalent to fit perfectly into your system. A belt fitted loosely compared to OE recommendation can cause excessive heat generated on the belt ribs. This can cause the belt material to harden over time and as such a hardened belt can cracks easily and eventually snap!

Auxiliary Belts for Alternator	Car Applications and engine code
VKMV 5PK877	Forester EJ205 '98-'02 Impreza EJ20G, EJ205, EJ207 '94-'02
VKMV 5PK882	Forester EJ205, EJ255 '02-'07 Impreza EJ205, EJ207, EJ255 '02-'07 Legacy EJ206, EJ208 '02-'03
VKMV 5PK874	Forester EJ204 '05-'07 Impreza EL154, EJ204 '02-'07 Legacy EJ20Y, EJ255 '05-'09
VKMV 5PK887	Legacy EJ208 '00-'01

Auxiliary Belts for Aircon	Car Applications and engine code
VKMV 4PK895	Forester EJ204, EJ205, EJ255 '98-'07 Impreza EL154, EJ20G, EJ204, EJ205, EJ207, EJ255 '94-'07
VKMV 4PK885	Legacy EJ206, EJ208 '02-'03
VKMV 4PK845	Legacy EJ20Y, EJ255 '05-'09

Auxiliary Pulley	Car Applications and engine code
VKM 68001	Forester EJ204, EJ205, EJ255 '98-'07 Impreza EL154, EJ20G, EJ202, EJ205, EJ207, EJ255 '94-'07 Legacy EJ206, EJ208, EJ20Y, EJ255 '02-'09

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D=70 W=18

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