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Interference  
Engines

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## **Have Interference Engines**

The following list will provide you the information on whether your car engine is an interference engine or a non-interference engine. An interference engine is one that has insufficient clearance between the valves and pistons if the cam stops turning due to a

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broken timing belt.

## **Interference Engines - The Complete List**

Interference engines are mostly 4-stroke engine types that don't have enough clearance between the pistons and valves, and when the timing belt breaks, the camshaft will fail.

As for the non-interference engines, they have adequate clearance between the pistons and valves, and

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will not cause the failure of the camshaft even after the timing belt breaks.

## **How to Tell If You Have an Interference Engine | Car Care ...**

Non-Interference engines are the type that have significant clearance between the valves and pistons. Below is a list (but not all vehicles) of interference and non-

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interference engines:  
Volkswagen • 1.3L and  
1.6L are interference •  
1.8L 2.0L and 2.3L V6  
are non interference.  
Toyota • 1.5L (3A-C, 1A-  
C and 3E) interference  
(Terrel etc)

## **Know your engines: Interference and non - interference ...**

This engine, unlike its  
four-cylinder sister,  
does have an engine  
code, namely, 6G73.  
The 2.4-liter engine

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used in the 1995 through 2000 Stratus and Caravan (engine code EDZ) is also an interference engine. Another common engine found in Dodge vehicles is the 3.0-liter V6 found in the Caravans, Mini Ram Vans and Ram 50s, with the engine code 6G72.

**List of Cars with  
Interference Motors  
| It Still Runs**



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Now, here's where we get into what an interference engine is: let's say that everything is terrible and our timing belt or chain has broken. It broke while the engine was running, so the ...

## **Here's What Interference Engines Are And Why They Exist At All**

The differences between interference and non-interference

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engines have everything to do with design. Nearly every engine has a timing belt or timing chain, designed to synchronize the camshafts and crankshaft. The camshaft is tasked with operating the engine's valves, while the crankshaft sends the up-and-down movement of the rods and pistons to the transmission and

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forward to the wheels.

## **What is an Interference Engine?**

In the non-interference, the distance between the pistons and valves is quite large. When timing belt or timing chain snaps occur and the cam stops as a result, the engine remains intact, hence you only need to change the timing chain or belt. On the other hand,

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interference engines have a short space between the pistons and valves and when the ...

## **Is your engine an interference or non-interference? It's ...**

Why did SUBARU engines switch to interference from non-interference? The valve to piston interference design allows for a higher compression ratio, which generally

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gives better fuel efficiency. Then the engine can be run very close to where it knocks, relying on the knock sensor signal to the ECU to retard the spark enough to stay out of knock.

## **Which SUBARU engines are interference? What SUBARU engines ...**

A list of Ford interference engines includes engines built

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from 1981 to 1995 with pistons close to the intake valves. If the timing belt broke, the pistons bent the intake valves and disrupted the timing of the camshaft and crankshaft.

## **List of Ford Interference Engines | It Still Runs**

Interference.

Consequently, With an interference engine, valves that are fully

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open will be hit by the piston on the way up. Non Interference. With a non interference engine "Also Known As A Free-Running Engine"; there is still some clearance between fully open valves and a piston in the top position. So, Is One Design Better Than The Other

**Interference Or Non Interference Engine - What Is The Real ...**

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An interference engine is a type of 4-stroke internal combustion piston engine in which one or more valves in the fully open position extends into any area through which the piston may travel. By contrast, in a non-interference engine, the piston does not travel into any area into which the valves open. Interference engines rely on timing gears, chains, or belts



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to prevent the piston  
from ...

## **Interference engine - Wikipedia**

In interference engines, milliseconds after the valve train stops moving, an out-of-sync ballerina crashes into an open valve. On some interference engines, a loose tensioner or skipped timing could lead to bent valves. It's possible that only a

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few bent valves will  
have to be replaced, ...

## **What is a Non- Interference Engine?**

While other engines  
may be listed as non-  
interference this can  
be misleading. Any  
engine may suffer  
damage under the  
wrong conditions, if the  
timing belt or chain  
breaks or slips.

Information resources  
vary and many  
opinions conflict on

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what is and is not an interference engine. We have found no way to compile an accurate list.

## **List Of Interference Engines - agcoauto.com**

The difference between an interference and non-interference engine is whether there is a gap between the valve that is fully open and the piston that is in the top

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position. If there is a gap, the engine is called a non-interference engine. If there is no gap, it is an interference engine. To illustrate, we have created these two animations.

## **Interference versus Non-Interference engine: animation ...**

All Toyota Rav4s from 2001 and newer have timing chains and interference engines.

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All Toyota Rav4s from 2000 and older have timing belts and non-interference engines. Model Years Engine Type Timing Belt Or Chain Interference Or Non-Interference;  
Toyota Rav4: 1996 - 2000: 4 Cyl. timing belt: non-interference:  
2001-2020:

**Does A Toyota Rav4  
Have A Timing Belt  
Or Timing Chain?**

Answer (1 of 3): Yes, all

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Hyundai engines are interference engines. (The best explanation I've heard is that "interference" refers to whether a broken timing belt will "interfere" with the rest of the engine.) My timing belt just broke this morning. The mechanic said it's pretty much luck of the draw as to a broken belt will damage the engine...

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## **Is A Hyundai Accent A Non Interference Engine? - Blurtit**

Interference engines are more efficient. They allow us to get more miles per gallon, which lessens our dependence on oil. Lessening our demand for oil keeps the price of fuel low. Like all engine designs, interference engines depend on the owner properly maintaining the vehicle. As long as

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you do that, this should never become an issue.

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