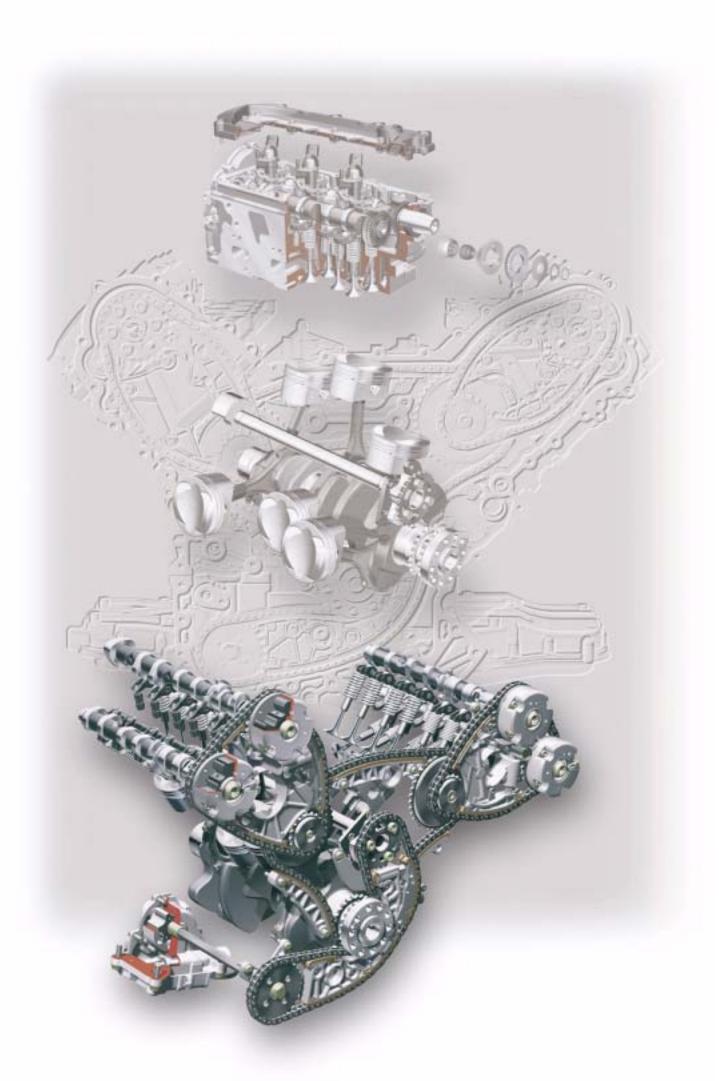




AUDI engines - Chain drives

Self-Study Programme 327



A compact engine design has been achieved by positioning the chain drive on the gearbox side and by using a four-piece chain drive distributed on two planes.

Thus, it is possible to install multi-cylinder engines in smaller model series without the need for extending the front end of the vehicle.

The chain drive helps reduce operating costs, because it is maintenance free and designed for long life.

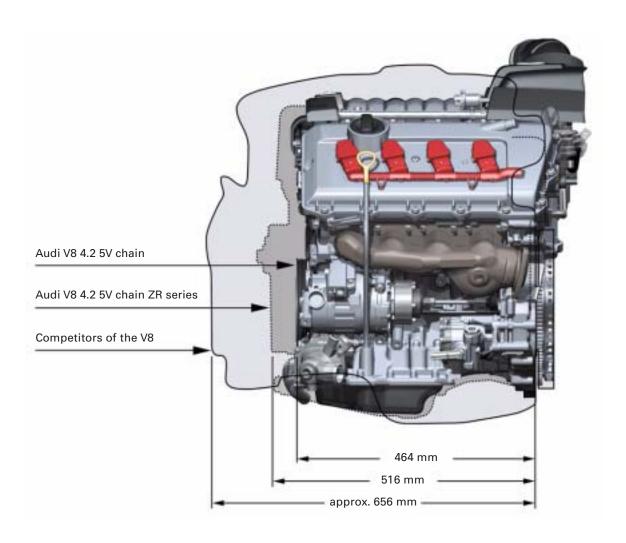


Table of contents

Contents
1.6-litre R4 FSI engine
Description .8 Performance features .9 Chain drive .10 Intake system .12 Oil circuit .14 Cooling system .15 Fuel system .16
3.2-litre V6 FSI engine
Description .18 Performance features .19 Chain drive .20 Intake manifold .23 Oil circuit .24 Cooling system .25 Petrol direct injection with supply on demand fuel system .26
3.0-litre V6 TDI engine
Description .28 Performance features .29 Chain drive .30 Backlash compensation .31 Intake manifold .32 Charging .33

4.0-litre V8 TDI engine

Description
Performance features37
Chain drive
Engine lubrication
Cooling system40
Air intake
Fuel system43
Charging
Exhaust system45

4.2-litre V8 engine

Description	46
Performance features	47
Chain drive	48
Intake system	51

6.0-litre W12 engine

Description	52
Performance features	53
Chain drive	54
Cooling system	56
Oil circuit	57
Exhaust system	58

The Self-Study Programme imparts a basic knowledge of the design and function of new models, new automotive components or new technologies.

The Self-Study Programme is not a Repair Manual!
The values given are intended as a guideline only and refer
to the software version valid at the time of publication of the SSP.

For maintenance and repair work, always refer to the current technical literature.





Overview

Audi engines with camshaft timing chain

In the Audi engines specified below, the camshaft is timed by a chain drive.

3.2-litre V6 FSI engine



1.6-litre R4 FSI engine



6.0-litre W12 engine



327_006