

Volvo 850

The years new features for the 850 are dominated by Volvo 850 AWD (= All Wheel Drive) and a new low pressure engine B5254T.

Appearance - exterior

Wheels and tires

The 20 spoked alloy rim "Uranus" (6.5x16") from 960 will be an option (not USA/CDN).

A new 3 spoked alloy rim "Chiron" (6.5x15") is available as an option with both 195 and 205 tires (not USA/CDN).

The current 6.0x15" steel rim is replaced by 6.5x15". The rim permits installation of both 195 and 205 tires. From 1997 model year onwards certain 850s, especially with B5254T, will be equipped steel rims and 205/50 rims as standard (205/55 on AWD).

Paint

Added: 426 (metallic silver), 428 (metallic red), 431 (light blue mother of pearl). Withdrawn: 412 (metallic green), 420 (light lilac mother of pearl) and 424 ("polar" white mother of pearl).

Summary

B5254T

Is a new low pressure turbocharged engine with excellent pulling power at low engine speeds. Maximum torque is reached at 1800 rpm and is 270 Nm.

Cars with B5254T do not normally have any exterior distinguishing features, but in certain markets the cars with this engine replace a number of GLT variants. In Japan the emblem "2.5T" is used.

The tail pipe is rectangular as in other cars with gasoline turbochargers.

Engine management system = Motronic 4.4 with a number of new sensors and modified fuel distribution system.

D5252T

Now available with automatic transmission, AW50-42.

Multiplex communication between engine control module (ECM) MSA 15.7 and AW-control module.

New type of accelerator pedal (AP) position sensor.

Engine, miscellaneous

The B5204S engine is withdrawn. Replaced in a number of markets with low pressure turbocharged engine B5204T2 (introduced continuously during the spring.)

The EGR and secondary air injection systems are being withdrawn for 10 valve engines, thanks to new and more effective catalytic converters.

On B5254S Motronic 4.4 replaces LH-3.2 and EZ-129K. (In USA/CDN there are variants with Motronic 4.3, see

summary of engine variants).

Improved hydraulic valve lifters on 20 valve engines (=960 1997).

The knock sensors (KS) on the 20 valve engines are replaced by a new model with integrated wiring.

Engine cooling fans, on 20 valve engines with AC and on all turbocharged engines (not diesel), are of a new type where the fan blade and electric motor are modified. The new fan is quieter, more effective and uses less current (=960 1997).

New lighter starter motors are used for petrol engines.

Electrical system and instrumentation

The two ground terminals for the engine management system on gasoline engines (one on diesel engines) are moved to the right side member.

New big front stereo SC-805 equipped for European/Nordic areas with RDS, single CD and speed related volume control (=960 1997).

New type of remote controlled central locking system with acknowledgment when locking/unlocking (not USA/CDN where GAll is usually standard) (=960 1997).

Flashing LED which displays that the immobilizer is activated. Available as standard / option for certain countries in Europe (=960 1997).

Interior

Front floor carpet attachment improved. The existing plastic screw is replaced by a strip with two locating pins installed in the floor. The carpets are held in place with clips which are snapped onto the locating pins. This means that the floor carpets are also modified.

Other

Electrical

The fuel powered parking heater with timer is available as a standard/option for left hand drive 850 TDI (introduce continuously during the spring).

Beam height adjustment is standard on cars for Europe (not Eastern Europe).

Immobilizer is standard (not USA/CDN).

Windshield antenna with amplifier are standard in all station wagons.

There is now text on Guard Alarm II in combination with 2 stage central locking system explaining the remote control buttons (=960).

Guard Alarm II is normally standard in USA/CDN.

4x50W amplifier including modified loudspeakers (=850R) available as option. Cars with 4x50 W amplifier have special radio cabling so that the dashboard loudspeakers are driven by the amplifier.

Bodywork, interior

Stainless steel sill trim panel as in the 850R is available as an option.

A Fire extinguisher is available as an option in certain markets. It is a 1.2 kg powder extinguisher which is located on the driver's seat seat frame.

Summary of engine variants 1997 model year Volvo 850

Engine	Power / Torque (bhp/Nm)	Engine management system	Transmission / Final drive -gear ratio	Remarks
B5202S	126/170	Fenix 5.2	M56H/4.45 AW42/3.10	For Nordic countries and European markets with an advantageous 2 liter taxation class limit.
B5234S	163/210	LH-3.2 / EZ-129K	M56H/4.00 AW42/2.74	Thailand only
B5252S	B5252S	Fenix 5.2	M56H/4.00 AW42/2.74	Nearly all markets, but not USA.
B5254S	170/220	Motronic 4.4	M56H/4.00 AW42/2.74	Nearly all markets. But not for cars with AW supplied to USA with marketing code 30 nor for CDN with AW. On cars with M56 supplied to USA with marketing code 30 and for CDN with M56, there is a leak diagnosis system.
B5254S	170/220	Motronic 4.3	AW42/2.74	Only Canada and in USA on cars with manufacture code 30. Without leak diagnostic system.
B5204T	210/300	210/300	M56H/4.00 AW42/2.54	For markets with advantageous 2 liter tax class limit.
B5204T2	170/230	Motronic 4.3	M56H/4.00 AW42/2.54	For Italy, Israel, Norway and certain Overseas markets (advantageous 2 liter tax class limit). No turbocharger control valve (TCV) Has replaced B5204S.
B5234T	225/300	Motronic 4.3	M56H/4.00 AW42/2.54	Nearly all markets.
B5234T2	218/300	Motronic 4.3	M56H/4.00 AW42/2.54	Thailand only Has changed designation to B5234T2 .
B5234T4	250/350	Motronic 4.3	M59/4.00	Only 850R
B5234T5	240/300	Motronic 4.3	AW42/2.54	Only 850R
B5254T	193/270	Motronic 4.4	M56H/4.00 AW42/2.54	Nearly all markets. In USA/CDN with leak diagnostic system. On AWD the M58 is used with 4.00:1 final drive ratio (AWD not in the USA).
D5252T	140/290	MSA 15.7	M56L2/3.57- AW42/2.54	Initially for Europe (including Nordic countries). Has 2 way catalytic converter and EGR.