

# Volvo S90

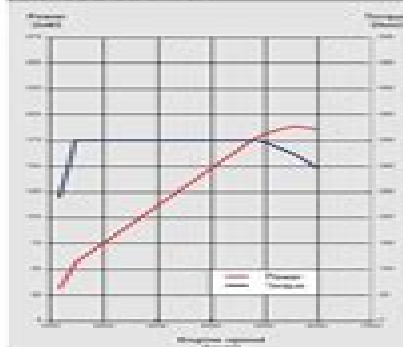
CONT'D VOLVO S90 -4

## ENGINES

Type
Configuration
Displacement, cm <sup>3</sup>
Bore (mm)
Stroke (mm)
Engine cylinder block material
Cylinder head material
Compression ratio
Valves, no/cylinder
Cams/shafts
Engine management system
Ignition sequence
Engine idling speed, rpm
Fuel, rec. octane
Max output, kW (hp)/rpm
Max torque, Nm/rpm

## T5 (300A130)

In-line 4-cyl. turbocharged
Transverse, front wheel drive
1969
82.0
93.2
Aluminium
Aluminium
10.3:1
4
2
Gasoline direct injection
1 - 3 - 4 - 2
850±100
95-98 RON
187 (254)/5500
350v/1500-4800



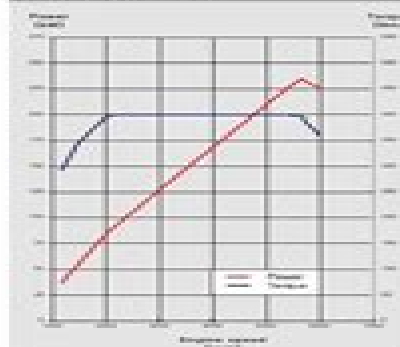
## POWER AND TORQUE →

Manual gearbox/final drive
Automatic gearbox/final drive
<b>PERFORMANCE</b>
Gearbox
Acceleration, 0-100 km/h (sec)
Top speed, km/h
Fuel consumption l/100 km (combined)
CO <sub>2</sub> g/km

AW TG-815C	3.075
	Automatic
	6.8
	230
	6.5
	149

## T6 AWD (300A130)

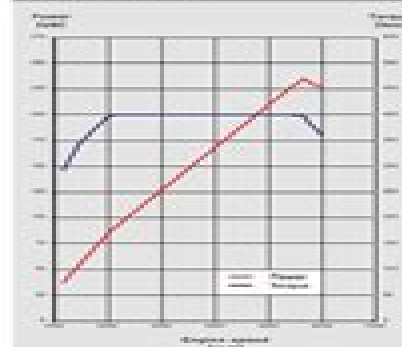
In-line 4-cyl. supercharged and turbocharged
Transverse, all wheel drive
1969
82.0
93.2
Aluminium
Aluminium
10.3:1
4
2
Gasoline direct injection
1 - 3 - 4 - 2
850±100
95-98 RON
235 (320)/5700
400v/2200-5400



AW TG-815C	3.200
	Automatic
	5.9
	250
	7.2
	165

## T8 AWD (300A130)

In-line 4-cyl. supercharged and turbocharged
Transverse, front wheel drive, rear electric motor
1969
82.0
93.2
Aluminium
Aluminium
10.3:1
4
2
Gasoline direct injection
1 - 3 - 4 - 2
850±100
95-98 RON
235 (320)/5700
400v/2200-5400



AW TG-815D	3.200
Automatic	4.8
	250
	2.0
	46

## Battery type

Battery content, total amount of energy (kWh)
Battery charging time*, at 16A/10A/5A fuse (hours)
Range (km) (NEDC for hybrids)
Electrical motor max power (kW/rpm)
Electrical motor max torque (Nm/rpm)
Driveline max power (hp)
Driveline max power (kW)
Driveline max torque (Nm)
Battery placement

## Lithium-ion Battery

10.4
3.0/4.0/7.0
50 km**
65/117
240/0-50
-407 (320 + 87)
-300 (235*** + 65)
-640 (400*** + 240)

## Centrally in the tunnel of the car

- \* Time starting at 100 percent charge
- \*\* City electric driving resistance at 50 km/h
- \*\*\* 0-100 km/h, Power\* and 75-100 km/h

# Volvo S90 Manual

**Helming**



## Volvo S90 Manual:

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Helming,2019-04-14      **Focus On: 100 Most Popular Station Wagons** Wikipedia contributors,      **1999 Manual Changes** ,1999      *Chilton's Import Auto Service Manual* ,2000 Contains general information for technicians on the specifications MIL resetting and DTC retrieval accessory drive belts timing belts brakes oxygen sensors electric cooling fans and heater cores of twenty one types of import cars      **HCI in Mobility, Transport, and Automotive Systems** Heidi Krömker,2019-07-10 This book constitutes the refereed proceedings of the First International Conference on HCI in Mobility Transport and Automotive Systems MobiTAS 2019 held as part of the 21st International Conference on Human Computer Interaction HCII 2019 in Orlando FL USA in July 2019 The 1274 full papers and 209 posters presented at the HCII 2019 conferences were carefully reviewed and selected from 5029 submissions The papers cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The papers in this volume are organized in the following topical sections interaction in autonomous and semiautonomous vehicles driving experience and mobility and transport      The Car Book Jack Gillis,1999      **Automobile Book 1998** Consumer Guide,Consumer Guide Editors,1998-01-19 Whether you re interested in passenger cars sport utility vehicles trucks or minivans all are discussed in this invaluable guide to the new 1998 vehicles Over 165 cars trucks and vans are reviewed and rated in every important category from price to handling to options Don t make an uninformed decision get the guide that takes the hassle out of car buying      **Indianapolis Monthly** ,1997-12 Indianapolis Monthly is the Circle City s essential chronicle and guide an indispensable authority on what s new and what s news Through coverage of politics crime dining style business sports and arts and entertainment each issue offers compelling narrative stories and lively urbane coverage of Indy s cultural landscape      *Motoring World* Delhi Press,2017-09-11 This magazines is a specialist motoring magazine we have always catered to the enthusiast in you and brought an unadulterated view of the world of motoring Sharp sassy clean wittier and edgier than ever before Drive it home today      *Human-Machine Interface for Intelligent Vehicles* Fusheng Jia,Huiyan Chen,Qianwen Fu,2024-08-20 Human Machine Interface for Intelligent Vehicles Design Methodology and Cognitive Evaluation examines the fields of designing and developing intelligent design and intelligent vehicle driving evaluation by using virtual reality augmented reality and other technologies The book explains the methodologies and systems of interactive design user evaluation and testing using virtual reality technology and augmented reality technology in intelligent cockpit design With the rising prominence of electric vehicles and automatic driving assisted technology

intelligent vehicles are becoming a reality Compared to traditional interactive design artificial intelligence provides new opportunities and challenges for the interactive design of intelligent cockpit space especially under the condition of intelligent assisted driving the driver s behavior performance multimodal interactive display interface design and evaluation Focuses on the interactive design methods of intelligent vehicles as well as forward looking design and testing methods of intelligent vehicle design Emphasizes that interactive design should be carried out using the relevant elements of intelligent system in the design of intelligent cars starting from the interactive characteristics of intelligence itself Starts from AI interactive design and combines the field of cognitive science to develop the methods and technologies of vehicle borne equipment and collaborative human computer interaction design Includes design cases from the intelligent car interaction design laboratory of Tongji University and related scientific research projects in China **Automobile** ,1997

**Challenges in Partially Automated Driving** Ignacio Solís Marcos,2018-05-14 The technological development in recent years is currently reflected in the implementation of more and more advanced driver assistance systems ADAS A clear example is found in the automated driving systems being marketed today Some of these systems are capable of controlling crucial driving tasks such as keeping the vehicle within the lane or maintaining speed and the distance with the front vehicle constant While this technology is still not mature enough to allow fully autonomous driving current systems allow partially automated driving or Level 2 SAE 2016 Level 2 automation enables feet free and for short periods hands free driving under specific situations Yet the driver is still expected to monitor the road and the system and be ready to intervene when required by the system Regarding this studies from the driving and other domains have warned about potential performance problems associated with placing operators in such monitoring role Factors such as vigilance decrements or proneness to engage in other activities have been proposed to explain these problems however their role in the context of Level 2 automation remains to be further investigated In this context the main aims of this thesis were to understand the attentional effects of monitoring a Level 2 automated system and to investigate drivers strategies to integrate additional tasks while using such system In particular the following research questions were established 1 Does monitoring a Level 2 system affect driver attention after short driving periods 2 Does Level 2 automation facilitate the performance of additional tasks 3 How do drivers integrate additional tasks into their monitoring responsibilities and how is that influenced by automation trust and experience A complementary aim of this thesis was to explore the applicability of the event related potentials ERPs technique to detect the effects of different types of ADAS i e Level 2 automation and a visual in vehicle information system IVIS on drivers attention and on specific processing resources Three studies were conducted to address the aforementioned research questions In Study I and III the participants were asked to drive Level 2 automated and manually while performing an auditory oddball task Study I or a visuomotor task Study III In Study II the participants were instructed to perform a computer tracking task with or without the support of an artificial visual IVIS while executing a secondary auditory oddball

task Measurements included performance indicators from the primary and secondary tasks as well as subjective and psychophysiological measures ERPs N1 and P3 amplitude and latencies elicited by the auditory oddball task were used to assess the participants attentional resource allocation Glance behaviour was also recorded to analyse drivers visual monitoring strategies in Study III In addition subjective measures of mental workload vigilance or automation trust were collected Last driving parameters such as speed time spent on the left lane or number overtakings were used to account for driving strategies to integrate an additional task while driving Level 2 automated or manually Study III As hypothesized monitoring a Level 2 automated system for short periods led to lower perceived demands and to reductions in the allocation of attentional resources to the auditory oddball task as shown by lower amplitudes in the P3 component Study I In Study III driving Level 2 automated led to worse performances on an additional visuomotor task compared to when driving manually which contradicted our expectations Additionally when the system was active drivers tended to look less to the road and more to the dashboard however only drivers with automation experience or who perceived the system as more robust increased their visual attention to the additional task Furthermore the results from Study II showed that some specific ERPs parameters namely N1 latency and P3 amplitude were also sensitive to the demands of IVIS while performing the tracking task Based on previous studies Young and Stanton 2002 the lower attentional resource allocation observed in Study I could reflect a cognitive underload effect induced by the Level 2 automated driving Cognitive underload is proposed as one of the explaining mechanisms for the observed worse performances in the additional visuomotor task during the automated conditions in Study III However other effects such as overload or task interferences could also explain this Finally the results revealed by the ERPs in Studies I and II suggest that this could be a useful technique to detect alterations in drivers attention due to the excessive high or low demands placed by different ADAS ERPs also showed a greater diagnosticity than other measures in the detection of specific task requirements of perceptual and cognitive resources Thus ERPs may be useful as a complementary tool to other mental workload measures Given that drivers need to remain attentive at all times while interacting with a Level 2 automated vehicle the use of countermeasures to mitigate the negative attentional effects reported in this thesis is highly recommended Specific training programs enhancing drivers knowledge of the system or the implementation of systems that inform about the system reliability or detect inadequate driver states could be promising solutions

gär av fordon med nivå 2 automation har nu möjlighet att kunna utan att använda pedalerna och under korta perioder även utan att behöva styra i specifika trafiksituationer Emellertid förblir de fortfarande ansvariga för att kontinuerligt vervaka den omgivande trafikmiljön liksom det automatiserade systemet även om automatiserade fordon har potential att öka säkerheten

Har tidigare studier visat på betydande problem förknippade med fårare svårigheter att vervaka automatiserade system en längre tid Denna avhandlings huvudsakliga syfte var att förstå vilken inverkan nivå 2 automatiserad körning har på fårare uppmärksamhet och beteende under två situationer där fårare vervakar trafiken och systemet både fårare vervakar trafiken och

systemet och samtidigt utför en sidouppgift av visumotorisk karaktär Dessutom undersöktes även vilken inverkan tillit till och erfarenhet av nivå 2 automation hade på förarens vervakningsstrategier av och användning av systemet Ett ytterligare kompletterande syfte med denna avhandling var att undersöka användbarheten av event related potentials ERP tekniken för att bättre kunna detektera eventuella förändringar som förknippas med nivå 2 automation Specifikt analyserades N1 och P3 ERP komponenterna Dessutom användes denna teknik i avhandlingen för att upptäcka kännig av den mentala arbetsbelastningen i samband med förarens interaktion med andra vanliga stödsystem exempelvis fordonets informationssystem Tre olika studier genomfördes I Studie I simulatorstudie observerades att kännig med nivå 2 automation under korta perioder medförde generella minskningar av uppmärksamhetsresursallokering Denna effekt upptäcktes som en minskning av amplituden hos P3 komponenten framkallad av utförandet av en sekundär auditiv uppgift I Studie III påvisades upptäcktes en bättre prestation på en sidouppgift av visumotorisk karaktär under kännig med nivå 2 automation jämfört med manuell kännig Det observerades även att förare med större erfarenhet av systemet och eller högre skattningar av systemets robusthet tenderade att titta mindre på vägen och mer på sidouppgiften Slutligen i Studie II laboratoriestudie upptäcktes att ERP var användbart för att detektera känningar av krav associerade med utförandet av en datoradministrerad språkingsuppgift baserad på ett artificiellt visuellt IVIS I allmänhet tyder resultaten i denna avhandling på att nivå 2 automation kan leda till kognitiv underbelastning en effekt som tidigare har observerats i högre grader av automation Nedstigning av uppmärksamhet beroende på kognitiv underbelastning kan förklara de sämre prestationerna på sidouppgiften under kännig med nivå 2 automation som observerades i studie III Dock behöver resultatet undersökas ytterligare eftersom andra effekter som verbbelastning eller specifik uppgiftskonkurrens också kan ha skett I enlighet med avhandlingens kompletterande syfte uppvisade användningen av ERP som ett komplementärt verktyg till andra stött att mäta mental arbetsbelastning lovande resultat ERP kan användas för att upptäcka ytterligare effekter av olika stödsystem som antingen kan eller minskar de krav som ställs på föraren Nu finns fordon med nivå 2 automation på vägarna Trots detta rå vissa säkerhetsproblem förknippade med deras effekter på förarens förmågor och beteende fortfarande olösta Det rå förmodligen inget tvivel på att insatser görs för att mildra sådana problem så att framtida incidenter i trafiken kan förhindras i så stor utsträckning som möjligt Förhoppningsvis bidrar denna avhandling till att klargöra de verkliga effekterna av nivå 2 system på förare och uppmuntrar till fler framtida studier inom området

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