

Volvo BM A40

6x6



- **Engine output:**
SAE J1349 Net
240 kW (325 hp)
- **Body volume:**
22 m³ (287 yd³)
- **Load capacity:**
26 t (60 sh tn)
- **Direct-injected, turbo-charged, intercooled Volvo low emission diesel engine.**
- **Fully automatic powershift transmission. High and low gear ranges.**
- **Hydraulic retarder as standard.**
- **Fully enclosed, forced-air cooled multiple disc brakes with external cooling.**
- **One longitudinal and three transverse air-locks. All with 100% lock-up.**
- **Front axle with three-point suspension and effective shock absorption.**
- **Volvo BM terrain logic, individually oscillating axles and high ground clearance.**
- **Low interior noise level.**
- **Adjustable steering wheel.**

VOLVO BM

ENGINE



Volvo 6-cylinder, inline, direct-injected, turbocharged, intercooled 4-cycle low emission diesel engine with overhead valves and wet sump-type cylinder linings.

Meets USA (EPA) and California off-road regulation 1995.

Fan: Hydraulically driven, thermostatically controlled radiator fan consuming power only when needed.

Item	Unit	Value
Model		100 100 100
Max power at	kW (hp)	240 (325)
SAE J1349 Net		
Powermax power at	kW (hp)	240 (325)
SAE J1349 Net		
CR 12.5:1		
Max torque at	Nm (kgm)	1100 (112)
SAE J1349 Gross		
SAE J1349 Net		
CR 12.5:1		
Displacement total	l	12.5
Bore	mm (in)	100 (3.94)
Stroke	mm (in)	120 (4.72)
Compression ratio		12.5

*) with fan at normal speed. With fan operating at full speed, the flywheel power is 230 kW (310 hp) which corresponds to 100% torque.

**) with fan at normal speed. With fan operating at full speed, the maximum torque is 1070 Nm (114 kgm) which corresponds to 100% torque.

ELECTRICAL SYSTEM



Voltage	V	24
Battery capacity	Ah	240 (7.5)
Alternator	W	1500
Starter motor	kW (hp)	6.5 (8.8)

SERVICE REFILL CAPACITIES



Crackcase	l	5.0 (1.3)
Hyd. oil	l	5.0 (1.3)
Working system	l	5.0 (1.3)
Transmission total	l	5.0 (1.3)
Shaftcase	l	5.0 (1.3)
Hub	l	5.0 (1.3)
Front axle	l	5.0 (1.3)
Front brake axle	l	5.0 (1.3)
Rear axle	l	5.0 (1.3)
Brake cooling system	l	5.0 (1.3)
Brake cooling tank	l	5.0 (1.3)
Hydraulic system	l	5.0 (1.3)

DRIVETRAIN



Torque converter: Torque converter with free wheeling clutch and automatic lock-up in all ranges.

Transmission: Fully automatic planetary transmission with 8 gears forward and 2 in reverse.

Drumbrake: Volvo BM with 2 stage design, power take off and differential with lock-up function.

Axles: Volvo BM 6-wheel drive. All axles have transverse shafts with 100% lock-up and fully floating axle shafts with planetary type hub reductions.

Differential locks: One longitudinal and three transverse. All with 100% lock-up.

Torque converter		100%
Transmission	Volvo BM	PT 1700
Drumbrake	Volvo BM	PT 1000
Axles	Volvo BM	A400/10

Speeds with tyres 28.5 R 25

Low gear forward	1	km/h	mp/h	9.8	(10.5)
	2	km/h	mp/h	9.8	(10.5)
	3	km/h	mp/h	15.4	(16.5)
	4	km/h	mp/h	20.4	(22.0)
	5	km/h	mp/h	26.4	(27.5)
	6	km/h	mp/h	37.7	(39.5)
High gear forward	1	km/h	mp/h	9.8	(10.5)
	2	km/h	mp/h	15.4	(16.5)
	3	km/h	mp/h	21.4	(22.5)
	4	km/h	mp/h	27.4	(28.5)
	5	km/h	mp/h	36.7	(38.5)
	6	km/h	mp/h	50.0	(52.5)
Low gear reverse	1	km/h	mp/h	9.8	(10.5)
High gear reverse	1	km/h	mp/h	17.7	(18.5)
	2	km/h	mp/h	17.8	(18.5)

SUSPENSION



VOLVO BM SUSPENSION SYSTEM

Front axle: One rubber spring with following absorbers on each side. Stabilizer. Three shock absorbers on each side. The front axle is suspended at three points, each needs a coil-over shock absorber in rough terrain.

Logic: Volvo BM's unique terrain logic, which permits individual oscillation between the axles.

Volvo A40 Service Manual

Chris Randall



Volvo A40 Service Manual:

Road and Track ,1973 **Volvo S40 and V50 Diesel (07-13) 07 to 62** Chris Randall,2013-01-01 Part of the Haynes Service and Repair Manual Series this title covers Volvo S40 and V50 diesel cars made between 2007 and 2013 **Motor Sport** William Boddy,1972 **The Autocar** ,1971-08 **Volvo S40 and V50 Diesel Owner's Workshop Manual, 07-13** Chris Randall,2016-10 *Volvo S40 & V40 Service and Repair Manual* Mark Coombs,Spencer Drayton,2005-01-01 S40 Saloon V40 Estate inc T4 special limited editions Does NOT cover new S40 V50 range introduced Mar 2004 or bi fuel models Petrol 1 6 litre 1588cc 1 8 litre 1731 1783 1834cc 1 9 litre 1855cc 2 0 litre 1948cc inc GDI Turbo **Car and Driver** ,1973
Motor Cycling and Motoring ,1976 *Road & Track* ,1963-02 **Motor Trend** ,1973 **Sports Car Graphic** ,1964
Sports Cars Illustrated ,1973 **Volvo S40 and V50 Petrol and Diesel Service and Repair Manual** Martynn Randall,2008 S40 Saloon V50 Estate inc special limited editions Does NOT cover Classic T5 or AWD four wheel drive models or facelifted range introduced July 2007 Petrol 1 8 litre 1798cc 2 0 litre 1999cc 2 4 litre 2435cc Does NOT cover 1 6 litre or 2 5 litre petrol engines Turbo Diesel 2 0 litre 1988cc Does NOT cover 1 6 litre or 2 4 litre diesel engines *Popular Mechanics* ,1959-09 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Autocar ,1997 **Cars & Parts** ,1992
The Motor ,1975 **The Commercial Motor** ,1978 *Amateur Gardening* ,1972 **California Builder & Engineer** ,1998

Volvo A40 Service Manual Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Volvo A40 Service Manual**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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