

# AMAZON Z-CARS

## Volvo Amazon Sport Catalogue

- Fast Road
- Historic Road Rally
- Road Rally
- Stage & Historic Rally
- Race

### MSA Historic Rally Categories

Category 1:	pre 1960	(HERO)
Category 1:	1960 – 1967	Historic
Category 2:	1968 – 1974	Post Historic



ISSUE  
Jul2010

## 2a Engine

- Mahle pistons
  - B16 (JP pistons only)
  - B18 +20, 30, 40, 60
  - B20 (early) +15, 30, 40
  - B20 (late) +15, 30
  - 2.1 litre pistons
- Steel oil pump
- Neoprene front & rear crankshaft seals
- Camshafts
  - D & K cams
  - 300° road rally camshaft
  - 310° competition camshaft
- Steel timing gears
- Followers, lightened
- Sport Valve Train (7000rpm):
  - Uprated followers & pushrods
  - Double valve springs
- Valves
  - Std valves, plus...
  - 36mm & 37mm Ex valve (B20)
  - Stellite 36mm Ex valve (B20)
  - 44mm In valve (B20)
- Gas flowed cylinder head  
(inc hardened ex seats, phosphor bronze guides, valves, springs)
- Lightened 8kg flywheel; Scalloped 7kg flywheel; Billet 5kg race flywheel
- Engine builds
  - Standard spec
  - Fast road/road rally
  - Stage spec
- Built to customers requirements, with our experience
- Machining done by Scholar Engines
- Gas Flowed heads by Grace Engineering

## 2b Cooling system

- Super X (3 core) Radiator
- Super X (3 core) Radiator, with fan-switch boss
  - 92°/87° electric fan thermo-switch
- 5 blade asymmetric Fan

## 2c Fuel & Exhaust systems

- Fuel tank, alloy
  - 75 litres, foam filled
  - -06 main & reserve outlets
  - FIA breather valve
  - *Permits spare wheels to be stowed horizontal*
- Fuel tank fitting kit
  - Aero strap downs
  - -06 unions x2; tap x2; T-piece
  - S/adhesive rubber strip
  - Sender & gauge, VDO
- Carburettors
  - SU H4's & HS6's reconditioned
  - Stromberg CD175's reconditioned
  - Weber 40/45DCOE kits (LHD only)



- Steel braided fuel hosing
- Exhausts
  - 4-branch manifold
  - 4-2-1 manifold
  - 2" sports exhaust system

### 3 Electrical equipment, Instruments

- Distributors
  - Reconditioned
  - Recurved for modern fuel/camshafts
- Lumenition kits (legitimate on Cat2 cars)
- Distributors: brand new *I23Ignition*, with electronic ignition and spark management, selectable advance curves including our own “sports” option.
- NGK cooler spark plugs (prevent run-on)
- Bosch ignition components
- Alternator: 33A and 55A, onboard regulator
- Dynamo
- Lighting
  - Cibié H4 headlights
  - Xenon H4 bulbs
  - Cibié Oscar auxillary lamps
  - Lucas 576WFT reversing lamp
  - H1 bulbs in 55w, 80w & 100w
- Illumination
  - Bonnet/boot lamp
- Heated rear screen



## 4 Power Train, Rear axle

- Clutch: uprated clutch cover
  - 38mm & 43mm release bearings
  - Spigot bearing
- M42 sport clusters (for M40/M41 'boxes)
  - 1<sup>st</sup>: 2.46 (3.13)
  - 2<sup>nd</sup>: 1.82 (1.99)
  - 3<sup>rd</sup>: 1.30 (1.36)
  - 4<sup>th</sup>: 1:1 (1:1)
  - Rev: 2.64 (3.25)
- D-type overdrive (and J's), reconditioned & uprated for competition use.
  - Overdrive switch, short steel
- Differential
  - 4.56:1 crown wheel & pinion
  - 4.88:1 cw&p
  - 5.38:1 cw&p
  - Limited Slip Diff, OE clutch type
- Polyurethane Bushes, Rear
  - Support arm, front x2
  - Support arm, rear x2
  - Support stay, x4
  - Panhard rod, x2
- Bilstein gas shock absorber
- Road Springs, *manufactured solely for Amazon Cars*
  - -25mm progressive rate springs (fast road)
  - Std height, +15% & 30% uprated springs
  - +1" Africa springs

*Special springs? We can have any variation fabricated for you – just call us to discuss the specification!*

- Gearbox reconditioning
  - Needle bearings & f&r bearings replaced
  - New synchro springs
  - Full gasket & seal kit employed
  - New detent springs

## 5 Brakes

- Steel braided Teflon brake hoses
  - DIY kit with mandrel
  - Direct replacement hoses
- Hydraulic handbrake
- Front brakes
  - Girling 3pot & 4pot callipers
  - Brake discs
  - Brake disc on hub
  - Mintex 1144 & 1166 pads
  - Front brake shoes, M1144 compatible or woven material
- Rear brakes
  - Shoes in M1144 compatible or woven material
  - Brake drums
  - Girling type adjuster
  - Spring set

## 6 Front axle, Wheels, Steering

- Steering Wheel, Motolita
  - 13"/14"/15" leather rim slotted dished
- Wheels
  - 4" & 4.5" steel reconditioned wheels
  - 5" new wheels
  - 5.5" Minilite mag alloys
  - Chrome dome wheelnuts
- Tyres
  - 175/70R15 Maxsport RB4, tarmac intermediate
  - 175/70R15 Maxsport RB3, M&S
- Polyurethane bushes, front
  - LWB bush x4
  - UWB bush x4
  - Anti roll →chassis x2
  - Anti roll link x8
- Bilstein gas shock absorber
- Road Springs, *manufactured solely for Amazon Cars*
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  - Std height, +15% & +30% uprated springs
  - +1" Africa springs

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## 8 Coachwork

- Roll cage: we are the SafetyDevices Volvo supplier
- Trim turnbuckles
- Heated rear screen
- Windscreen

## 9 Miscellaneous equipment

- **Sump Guard:** 6mm 6082 alloy
- **Steering Guard:** 6mm 6082 alloy
- Washer jet, twin jets

## Production Information

<u>Cat 1 (pre 1960) "HERO"</u>			
	<i>engine</i>	<i>type</i>	<i>chassis</i>
120	B16	A, B	1 to <54399

*NB: if you have front discs or B18, the car is Cat1*

<u>Cat 1 (1960-1967) Historic</u>			
	<i>engine</i>	<i>type</i>	<i>chassis</i>
120	B16	D	<54400-84299
120	B18	EFGKLM	84300-234209 (end of prod <sup>n</sup> )
130	B18	ABDEFMP	1 to <312499
220	B18	ABDEFMP	1 to <70299

*NB: if you have a B20 motor, the car is Cat2*

<u>Cat 2 (1968-1974) Post Historic</u>			
130	B18	P	ends at ch312499
130	B20	ST	312500-359910 (end of prod <sup>n</sup> )
220	B18	P	ends at ch 70299
220	B20	S	70300-73196 (end of prod <sup>n</sup> )

### *Full Workshop Facilities*

*MoT - Engine & Gearbox builds - Propshafts  
- Suspension -*



*Rob & Emma Henchoz*

e-mail: [volvo@amazoncars.co.uk](mailto:volvo@amazoncars.co.uk)  
[www.amazoncars.co.uk](http://www.amazoncars.co.uk)

Woodlands Farm, The Street, Brundish  
Suffolk. UK. IP13 8BP

Tel: 01379 588400 Fax: 01379 588424