

## Volvo 140 Sport Catalogue

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

### MSA Historic Rally Categories

|             |             |               |
|-------------|-------------|---------------|
| Category 1: | 1960 – 1967 | Historic      |
| Category 2: | 1968 – 1974 | Post Historic |



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## 2a Engine

- Mahle pistons
  - 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 cam
  - K cam
  - 300° road rally camshaft
  - 310° competition camshaft
- Steel timing gears
- Followers, lightened
- Sport Valve Train (7000rpm):
  - Uprated followers & pushrods
  - Double valve springs
- Valves
  - 36mm & 37mm Ex valve
  - Stellite 36mm Ex valve
  - 44mm In valve
- Gas flowed cylinder head  
(inc hardened ex seats, phosphor bronze guides, valves, springs)
- Lightened 8kg flywheel; Scalloped 7kg flywheel; 5kg billet race flywheel
- Heavy duty engine mounts
- 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
  - -06 main & reserve outlets
  - FIA breather valve
  - Baffled & foamfilled
- Fuel tank fitting kit
  - Aero strap downs
  - -06 unions x2; tap x2; T-piece
  - S/adhesive rubber strip
  - Sender & gauge, VDO
- Carburettors
  - SU HS6's reconditioned
  - Stromberg CD175's reconditioned
  - Weber 45DCOE kits
  - Bosch D-Jetronic components
- Steel braided fuel hosing
- Exhausts
  - 4-2-1 manifold
  - 4-branch 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 ou own “sports” option.
- NGK cooler spark plugs (prevent run-on)
- Bosch ignition components
- Alternator: 33A and 55A, onboard regulator
- 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
- Navigators binnacle (early 140)
- Centre console (early 140)
  - 2/3/4 gauge slots (52mm)
  - Mounts forward of gear lever



## 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)
- J-type overdrive, 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
  - Clutch type Limited Slip Diff
- Polyurethane Bushes, Rear
  - Support arm, front x2
  - Support arm, rear x2
  - Support stay, x4
  - Panhard rod, axle x1
  - Panhard rod, body x1
- Bilstein gas shock absorber
  - Polyurethane lwr bush
- 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 or ATE 4pot callipers
  - ATE vented callipers
  - Brake discs, solid
  - Brake discs, vented
  - Mintex 1144 & 1166 pads
- Rear brakes
  - Girling or ATE 2pot callipers
  - Brake discs
  - Mintex 1144 & 1166 pads
  - Brake shoes

## 6 Front axle, Wheels, Steering

- Steering Wheel, Motolita
  - 13"/14"/15" leather rim slotted dished
- Wheels
  - 4.5", 5" & 5.5" steel reconditioned wheels
  - 5" new wheels
  - 5.5" & 6" Minilite mag alloys
  - 6" Superlite 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
  - S/absorber bottom pin, modified
- Road Springs, *manufactured solely for Amazon Cars*
  - -25mm progressive rate springs (fast road)
  - Std height, +30% uprated springs
  - +1" Africa springs

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

## 8 Coachwork

- Roll cage: we are the SafetyDevices agent
- Trim turnbuckles
- Quarter light latches
- Heated rear screen
- Windscreen

## 9 Miscellaneous equipment

- Navigators Pod, early dash
- **Sump Guard:** 6mm 6082 alloy
- **Steering Guard:** 6mm 6082 alloy
- Washer jet, twin jets

## Production Information

| <u>Cat 1 (1960-1967) Historic</u> |               |             |                |
|-----------------------------------|---------------|-------------|----------------|
|                                   | <i>engine</i> | <i>type</i> | <i>chassis</i> |
| 142                               | B18           | M           | 1-1499         |
| 144                               | B18           | M           | 1-37099        |

| <u>Cat 2 (1968-1974) Post Historic</u>                |     |        |             |
|---|-----|--------|-------------|
| 142   | B18 | P      | 1500-52899  |
| 142   | B20 | STUWYA | 52900 on    |
| <i>NB: injection available from 1971(U), ch178960</i> |     |        |             |
| 144   | B18 | P      | 37100-89799 |
| 144   | B20 | STUWYA | 89800 on    |
| <i>NB: injection available from 1972(W), ch263070</i> |     |        |             |
| 145   | B18 | P      | 1-9199      |
| 145   | B20 | STUWYA | 9200 on     |
| <i>NB: injection available from 1972(W), ch103380</i> |     |        |             |

### Full Workshop Facilities

MoT - Engine & Gearbox builds - Propshafts  
- Suspension -



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