

M3W Alternative Parts List

Revised: 19 Sept 2018

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Engine & Transmission

- **Air Filters:**
 - S&S Muscle air filter: Fitting Kit 170-0200, Chrome 170-0119, Black 170-0214 A1
 - Element: S&S 106-4722, S&S Super E/G pleated cotton type.
 - K&N filter E-3226 will fit at a pinch, just a little tight around support spindles
 - S&S Stealth element, S&S 170-0126.
- **Bevel Box:**
 - Pinion bearings: HM88542-HM88510, HM89449-HM89410.
 - Bevel Box pinion change info: Pinion seal National Oil Seal 224205 Federal Mogul. Pinion shaft nut is LH thread. Pinion bearing pre-load is 18-20 lbs in torque.
 - Bevel gearbox numbers: New U120005 - £1854.22 +VAT. Recon U120058 - £410.00 +VAT (2015)
 - Oil:
 - Redline Heavy Shockproof 75W/140 (75W/250)
 - Standard oil: Morris Lodexol XFS 80W/140 fully synthetic limited slip gear oil
 - Alternative oil: Millars EP 140
 - Bevel Gearbox rebuild: TM Bwitted April 2015. and P964 Nov 2017 for info.
- **Cam Belt:**
 - S&S 106-0571, Gates 37-0014.
 - Cam belt Spec: 127 teeth, 30mm wide.
- **Clutch:**
 - Release bearing/cylinder: Volvo 8675052.
 - Clutch Master Cylinder 15.8mm dia: LBACBL021AP
 - Shorter Clutch Master Cylinder: AP CP2623. 5/8" bore. 3.15" long from flange face to the end as opposed to the 6" of the original.
 - Centa & Clutch fit: TM JVS Nov 2015.
- **Drive belt:**
 - 186214M38 265A (printed on belt)
 - S&S (Gates) p/n: 106-0353
 - Drive belt spec: 1.5" wide, 133 teeth, 14mm pitch
- **Exhaust:**
 - Stud nuts: 5/16" UNF.
 - Exhaust gaskets: 503015 (Matts Machine shop) don't fit.
 - G-56 Spitfire stage 1 kit: PPL-102916
- **Fuel system:**
 - Fuel Filter:
 - Mahle KL167 (Range Rover, BMW X5)
 - Alt. Fuel filter: Mann WK513/3
 - Injector Nozzle. The part # is 0 280 156 198, Bosch, type B
 - S&S info = fuel injector, 55-5005, 31.3 lbs/hr at 58 psi, style b.
 - Fuel Pump:
 - Module: WFX101020 (93-98 Discovery V8 EFI)

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- Alt. fuel pump:
 - Walbro GSS342 (Glencoe Ltd) (preferred alternative)
 - Convoluted pump hose heat-shrink 210mm: PFH0825 (for GSS342)
 - Pump wire loom: 22-615 (for GSS342)
 - Pump rubber foot 22-63 (for GSS342)
 - Alternative fuel Pump: Walbro 340B,
 - Delphi FE0113 is standard replacement pump(?)
- Fuel tank sender (280mm) VDO 224011000280G (Europa)
- Fuel hose Ethanol proof spec: 7.3mm ID, 13.5mm OD. J30 R9 73379 type 3E
- Fuel hose p/n 2240.0600 from Cohline.
- Fuel hose protective sleeve: Heatshield Products Kit 204008 (5/8")
- Fuel hose clips : Stainless steel round edge 11-13mm
- Ignition:
 - Spark Plugs:
 - Standard, Champion RA8HC
 - NGK Iridium: DCPR7EIX
 - Plug Leads: Magnecor p/n 2547. Spec = KV85. 55cm long. 90-degree end coil pack, 45 degree plug, 12mm plug.
- Oil System:
 - Engine oil:
 - Motul 7100 4T 20W-50 V-Twin fully synthetic
 - Spectro 20W/50 fully synthetic V-twin.
 - Oil Filters:
 - S&S Oil Filter p/n 31-4103 (Black)
 - S&S Oil Filter p/n 31-4104 (Chrome)
 - K&N Oil Filter p/n KN-171B (Black)
 - K&N Oil Filter: p/n KN-171C (Chrome finish)
 - Engine sump plug thread ½" - 20tpi.
 - Oil tank drain valve M12 1.75mm thread. p/n F-107N QVGN (www.quickvalve.co.uk) Use 10mm drain hose.
 - Oil pressure and Temp gauge:
 - Merlin Motor sport. Gauge and kit SPA-DG201B, Extension bolt ¾ UNF M-EB-3/4UNF, Billet sandwich plate M-TGASP200X
 - SPA Oil Press/temp gauge info: TM KBMOG, Dec 2014. www.merlinmotorsport.co.uk
 - <http://www.cvoharley.com/smf/index.php?topic=14309.0> relates to air cleaner venting and blow by oil contamination.
- Transmission:
 - Gearbox sump plug (MX5) M18 – 1.5 12 square head (taper fit)

Wheels, Suspension & Brakes

- Bearings:
 - Front wheel bearings:
 - Inner Timken LM67048, LM67010
 - Outer Timken LM11949, LM11910.
 - Seal: 1.75"x2.5"x0.375" (44.45x63.5x9.53mm) single lip.
 - Rear wheel bearings:
 - SKF Explorer 6205-2RSH.

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- **Brakes:**
 - Clutch and Brake Fluid: DOT4 spec.
 - Brake bleed nipples Front - M10 x 1.0 Rear - M7 x 1.0
 - Brake parts Info: Caparo AP Braking. www.caparobraking.com
 - Caparo was AP Lockheed. Now does not seem to sell to public, no Cross ref numbers available. Try Liberty Group. 920E
 - Brake master cylinder tandem 17.8mm dia. LBBEAH003AP
 - Front:
 - Front brake Disc + Bell: LB1TPA002AP
 - Front Brake Pads: HF204. APP 0099-200G E344 2117
 - 16mm thick pads. Ferodo FRP1079 (DS3000) EBC Yellow stuff, ALCON.PNF0084X322.4, BREMBO 07.5064.8, BREMBO 07.5064.82, BREMBO 07.5064.84, BREMBO 07.5064.49, PAGID 1705, PFC 7735.XX.16
 - Front Brake Caliper LH: APA0099-CD018A
 - Front Brake Caliper RH: APA0099-CD017A
 - Rear:
 - Rear Brake Drum (9"x1.75"): LBNLCDL105AP
 - Rear Brake wheel cylinder: LB1LCG033AP
 - Rear Brake shoe set: HF206, Ferodo FSB385, Mintex MLR42.
 - Rear Brake OEM Liberty 920E U220016 (with adjuster fitted)
 - Rear Brake adjuster kit: HK107 or BBA120.
 - Rear Brake spring kit: HF207 or Delphi BSF030
 - Info: Rear brake slave cyl and shoes: Ford Transit Mk2 single rear wheel 1976-86. Leyland Sherpa LDV 200 (9" rear drums) 1985-89. Grease inside gaiters to prevent corrosion.
- **Front tyres:**
 - Coker Excelsior Comp. 400H19 (Longstone Tyres)
 - Blockley 400H19 (MWS)
 - std.: Avon 400X19 65H
 - Tubes: BLTU400/19 Brass valve(TR-11), BLTU400/19-TR6 metal, BLTU400/19 rubber valve (TR-13) (MWS)
 - OKO tyre sealant: 170749717059 (1.25 L) (road puncture free car or <http://www.punctureseal.com>) or <http://www.oko.com/products/on-road-commercial/oko-puncture-free-on-road-4x4/>
 - Schrader aircraft valve cap. MS20813-1
 - Alternative sealed valve caps on ebay.
- **Front wheels:**
 - Black: WW5771 BLACK (MG TA 2 1/2" x 19") (MWS)
 - Silver: WW5771S
 - Chrome: WW5771C/2
- **Rear mudguard:**
 - Fabricate from Indispension MG008

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- **Rear tyre:**
 - Kumho KH27 Ecowing ESO1 175/65-15
 - Nokian Weatherproof for snow/ wet, Avon ZT5
 - Dunlop SP Sport Blue Response
 - Yokohama Blue Earth 2
 - Michelin Cross Climate
 - Pirelli All Season
 - Avon CR6ZZ 175/70 R15 for comp use
- **Suspension:**
 - Rear wheel axle nut locking R clip 3mm x 72mm
 - Rear axle spanner sizes: 36mm & 24mm.
 - Top and Bottom front upright ball joints: Mk1 Metro? p/n GSJ268
 - Gaiters for front upright ball joints: Boot 2 from balljointboots.co.uk spec. 30x12.5 x 27mm high. (Morgan p/n SP160001)
 - Track rod ends comfort kit: Fluro GIXSW14x1.5 Rod End Bearing 14mm Bore. M14x1.5 Thread Female Right Hand.
 - ATR Shock absorbers. ATR MOG 001 Front, ATR MOG 002 Rear.
 - Available from: <http://www.dampertech.co.uk/>
 - Spax front adjustable shock absorber: SP160002
 - Empire / Krazy Horse Front suspension wishbone rose joints: Aurora XM6T 7/16"unf RH Thread x 3/8" bore PTFE lined with zinc passivisation. Autosport Bearings and Components, Shepperton, Middlesex, TW7 8BA (£25 ea)
 - Ohlin Shocks. TM JVS Nov 2015.
 - Ohlin shocks info: TM 10/10/16.
 - Rear axle spanner sizes: 36mm & 24mm.
 - Gunson Trakrite Wheel Alignment Gauge: G4008
 - Gunson Magnetic Camber Castor Gauge: 77066

Electrics

- **Battery:**
 - Battery Supply: www.tanya.co.uk
 - Standard Battery: Banner Starting Bull 530 30
 - Battery Spec: 30A, 300A cold crank, L187mm, W128mm, H165mm. Bolt through terminals.
 - Battery Alt: Duracel DURAGM 30LA-US (30A 400CCA)
 - Odyssey Gel battery : PC680
 - Magneti Marelli 53034 (32a 540 CCA) Lithium Ion.
 - Exide AGM12-31 (4990) sealed bike battery (30A, 430CCA).
 - Varta Blue Dynamic (540126033) (054) Lead Acid. Taller (50mm), needs retaining studs extending.
 - JMT YTX30-FP. Lithium Ion
 - Westco WCP30 Platinum Motorcycle battery. AGM .May require base plastic trim to fit tray.
 - Xtreme AGM. CYLA30LXTA. (12V, 385CCA)
 - Arteck 600a jump starter pack.
 - YUASA UR1. 30a/h 270A

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- **Charging system:**
 - Standard Cycle Electrics regulator/rectifier: CE 601
 - Harley Davidson Alternate Regulator: 74540-01 38amp 3 Phase. (fits 01-06 HD Softail)
 - HD type after market rectifier Chrome: PEU-21120803
 - HD type after market rectifier Black: PEU-21120808
 - Rectifier Plug (4 Pin): Farnell Ltd. Amphenol parts: ATP04-4P (Rcpt), ATP06-4S (plg), AT62-12-0166 (Skt), AT60-12-0166 (pin).
 - Long life rectifier bobbins: <https://caterhamparts.co.uk/mounts-gaskets/1075-exhaust-mounting-bobbin.html>
 - Battery remote disconnect: <https://www.batterybrain.co.uk/>
 - Genny stator test: <http://roadstercycle.com/Stator%20Testing%20Example.htm>

Lamps:

- Replacement 7" headlights with DRL: PowerfulUK (ebay) Morgan ARV6 type or LR Defender. (£45) p/n HL873
- H4 Halogen Headlight bulb: Philips Extreme Vision +130.
- H4 LED headlight bulb: H4 Philips LUXEON ZES
- 55mm red Stop tail LED unit: Part Number: **LED55ST**
- 55mm amber indicator LED units: Part Number: **LED55IND** from car parts builder solutions.
- Indicator Module, Morgan p/n E340098. Electromech p/n EA0021i4
- Additional LED rear light, roll hoop mounted: Axiom Zap 2

Body

- Fairbourne screen made from Lexan Marguard Polycarbonate. Wind screens: www.fairbournecarriages.com
- Exhaust mounts: Hexagon Male M8x16. HEX1384-60 or : <https://www.clampcok.co.uk/exhaust-repair/exhaust-mountings/exhaust-mounting-bobbins/ecsm33-rnt3-255-333-m8-thread-renault-universal-exhaust-mounting-bobbin.html>
or Caterham parts : 30X052B
- Rear Indicator Chrome (Rutter) 2EL201L, 3EL201R
- Replacement side, rear view mirrors: <https://www.ebay.co.uk/itm/PAIR-OF-LUCAS-STYLE-CHROME-ROUND-EXTERIOR-WING-DOOR-MIRROR-CLASSIC-CAR-LH-RH/321698142306>
- G-56 bonnet sprung Dzus fasteners: <https://www.garage56.co.uk/product/morgan-bonnet-fastener-ejector-spring-kit/>
- Stick on Union Jack badges: <http://shop.morgansportscarclub.com/acatalog/Union-Flag-Enamelled-Badges.-Stick-on.-32.html#SID=10>
- Lower body edge to chassis pop rivets: 5mm dia. (3/16") 16.5mm long aft, 9.3mm long forward. Stainless steel. HD puller required.
- Boot liner tray knurled thumb screws (qty9) M5 x 16mm.
- Front mudguard bolts Stainless steel M8 x 16mm, shake proof washers serrated type. Keys on Ebay.

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Interior

- Dynamat sound proofing.
- Extra (cigar) power socket 20A 28mm flap: 60101 (Europa)
- Manufactured Glove box from 2mm Plasticard.
- Sat Nav mount ball: RAM 1" tough-ball, M6-1 fitting. RAM-RAP-B-379U-M616 (Maya 20000 Ltd) or www.telferizer.com
- Immobiliser: Sterling Excel, Made by Scorpion Automotive. www.scorpionauto.com Thatcham Cat 2.
- Melvyn Rutter engine turned dash panels: 3AC51L, 3AC51R.
- B-G steering wheel spacers (3 bolt): Demon Tweeks
- Steering Wheel quick release: www.lifeline-fire.co.uk
 - Changes to design and part numbers build 01/06/16 and 03/04/17.
 - 3 bolt standard and 4 bolt for Brooklands wheels.
- Glove box leather Bag: <https://dowcopowersports.com/willie-max-take-along-windshield-bag-large-58011-00/>

Miscellaneous

- Loctite 243, use this to secure just about everything on the M3W.
- Fast Idle at standstill: Motor Kit Idle Control S&S 55-5085
- Protune: voltage oscillation range of the lambda probes is 0.5 V to 1.1 V approximately for good sensor

Parts Sources

- S&S Parts: Matts Machine Shop
- Davida Goggles/Glasses: 74 WRS. From Greycar (£36)
- Daisy C5 Military Tactical Goggles motor cycle riding glasses (£20)
- Morgan M3W jacket = Spada Dyno (less M3W badge).

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Services

- Matts Machine Shop <http://www.mattsmachineshop.co.uk/>
- B&C Express Potehanworth. 01522 791369, LN4 2DX. Talked to Chas about chain drive conversion.
- Autosol Blueing Remover Stainless Steel Exhaust Cleaner Colour Restorer 150ml.
- <https://www.gov.uk/government/publications/mot-inspection-manual-for-class-3-4-5-and-7-vehicles>
- Urban Cooling Kit instructions PDF: <https://drive.google.com/file/d/0B597Pkl-M0WqWEk2Tk5UeFk5Mms/view?usp=drivesdk>
- Crash Helmets; Caberg Riviera V2+
- Electrical loom plugs: www.uk.farnell.com
- S&S Engine service manual: 106-0735
- www.europaspares.com
- Supermax sprocket conversion: vyvyanross@yahoo.com
- V 5.2 MMC M3W parts manual: https://www.4shared.com/get/H-5MmbB8ei/M3W_Parts_Book_V52.html
- <http://www.morganpark.de/individuelle-umbauten/>
- http://www.magnecor.co.uk/product_information.asp
- <https://www.carbuildersolutions.com/uk/CatalogueRequest>
- https://www.sscycle.com/docs/default-source/instruction-sheets/510-0048_sidewinderspringsxwedge_20130311.pdf?sfvrsn=4
- <http://atr-performancedampers.co.uk/> <http://www.dampertech.co.uk/>
- <http://brakeparts.co.uk>
- <http://www.opieoils.co.uk>