# M3W Alternative Parts List

Revised 12 January 2026

## 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. Alt PU PN 1011-2765

- Bevel Box:
  - Pinion bearings: HM88542-HM88510, HM89449-HM89410.
  - Pinion seal spec. 55x42x8mm R23 Viton double lip rotary shaft oil seal with gaiter spring. This is confirmed as one size but possibly 2 sizes are used.
  - 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. Assemble with silicone gasket on splines for oil sealing.
  - Crown wheel shaft bearings 33011A (55x90x27mm)
  - Main shaft bearing track retainers, case repair/ saver. Tolerance Ring AN type
  - Drive sprocket shaft seal. 75x55x10mm. Nut is 54mm across flats.
  - Bevel Gearbox rebuild: TM Bwitched April 2015. and P964 Nov 2017 for info.
  - Bevel gearbox numbers (MMC): New U120005 - £1854.22 +VAT. Recon U120058 - £410.00 +VAT (2015)
  - Oil:
    - Standard oil: Morris Lodexol XFS 80W/140 fully synthetic limited slip gear oil. Normal contents 330cc
    - Alternative oils: Millers EP 140
    - Redline Heavy Shockproof 75W/250
    - Amsoil 75W/140 Severe Gear Oil or 250 Severe.

- Cam Belt:
  - S&S 106-0571, Gates 37-0014.
  - Cam belt Spec: 127 teeth, 30mm wide, 0.2” pitch
  - Cam drive oil seals. SKF CR seals 8646

- Clutch:
  - Release bearing/cylinder: Volvo 8675052. (C30,C70 (2006-) S40,V50 (2004-) Jaguar 456R7A564AA, Land Rover LR022452 (Freelander 2)
  - Clutch Master Cylinder 15.8mm dia: LBACBL021AP Morgan p/n U120071
  - Alt. clutch master cylinder, not exact or confirmed bit similar. SAAB 9000 43850 or 8957292. Requires actuation rod transferring over.
  - 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.
  - Clutch Master Cylinder repair kit. SAAB p/n 8993156 (SAAB 9000)
  - Clutch Master Cylinder seal only, 5/8” bore, Lockheed p/n 3871-505
  - Centa & Clutch fit: TM JVS Nov 2015.
  - HD Compensator Jurid coupling. BMW 26117518443
  - Clutch is made by TTV Racing Components. They will not help with anything. CG Motorsport in Leeds UK www.clutch-specialists.co.uk will help.
  - Clutch new thickness is 8.2mm
  - Centa to crank nut thread size 7/8UNF
  - Flywheel support bearing(18) SKF3210A-2RS1TN9/MT33
  - Bleazey Centa Mod ratchet handle. 1/4” drive. Sealey AK6962
  - Clutch bleed nipple. Volvo p/n 8675509

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- Drive belt:
  - 186214M38 265A (printed on belt)
  - S&S (Gates) p/n: 106-0353
  - Drive belt spec: 1.5" wide, 133 teeth, 14mm pitch
  - Supermax sprocket: vyvyan@yahoo.com www.supermax.net
  - Chain drive conversion kit. Contact Phil Bleazey

- Exhaust:
  - Exhaust gaskets: 503015 (Matts Machine shop) these don't fit.
  - Exhaust gasket. HD EVO 1984 on.
  - G-56 Spitfire stage 1 kit: PPL-102916
  - Exhaust studs: 5/16" UNF/UNC. 1 3/4" long
  - Stud nuts: 5/16" UNF.
  - "Jet" Nuts 5/16-24 Kaynar MS21043. (LAS Aero)
  - Rubber bobbins silencer mount (later) Renault Traffic, Master, Espace RTN4 255-336. M8
  - Exhaust pipe connector collar, 65mm diameter x 87mm long Stainless steel.
  - Exhaust Flexi, 2" x 6" iLOK type (interlocking internal and bellows plus mesh)

- Fuel system:
  - Fuel Filter/ Regulator:
    - Mahle KL167 (Range Rover, BMW X5)
    - Mann WK513/3
    - Rover p/n WFL000020, WFL000021
  - Injector Nozzle. The part # is 0 280 156 198, Bosch, type B
  - Alt. Injector Nozzle Bosch 0 280 155 788
  - S&S info = fuel injector, 55-5005, 31.3 lbs/hr at 58 psi, style B.
  - Fuel pump module retaining ring: BMW p/n 6762417
  - Fuel Pump: Module: WFX101020 (93-98 Discovery V8 EFI)
  - Fuel pump module rubber seal.BMW Mini p/n 16141182905
  - Alt. fuel pump:
    - Walbro GSS342 (Glencoe Ltd) (preferred alternative)
    - Fuel Pump Kit now available from Glencoe. p/n ITP 184
    - Convoluted pump hose heat-shrink 210mm: PFH0825 (for GSS342)
    - For USA pump supply try Summit Racing Kit 400-766 .
    - Pump wire loom 22-615 (for GSS342)
    - Pump rubber foot 22-63 (for GSS342)
    - Pump inlet filter 22-140 (for GSS342)
    - Pump module lock ring BMX X5 p/n 16116762417
    - Alternative fuel Pump: Walbro 340B.
    - Delphi FE0113 is standard replacement pump(?)
  - Fuel tank sender (280mm) VDO 224011000280G (Europa Spares)
  - Fuel tank sender gasket VDO 226053
  - Fuel hose spec should be SAE J30R9 Ethanol compatible.
  - Fuel hose Ethanol proof spec: 7.3mm ID, 13.5mm OD. J30 R9 73379 type 3E
  - Fuel hose p/n 2240.0600. Cohline. 1.5m reqd. to replace engine end.
  - Fuel hose protective sleeve: Heatshield Products Kit 204008 (5/8")
  - Fuel hose clips: Stainless steel round edge 11-13mm and 14-16mm
  - Extra inline fuel filter. Suggested: VW Golf, Polo Bosch F5316 (0450905316)
  - Fuel Hose quick release connectors. Bundy Type 7.89mm ID6
  - Fuel tank roll over valve alternative. Newton TRL88.
  - Charcoal vapour canister : Ford p/n 1374029
  - Fuel contents shunt resistor 750 Ohm 0.6 Watt across terminals.
  - Fuel filler cap assy, with locking insert. Newton Classic 300 p/n OL-ZA-002
  - Fuel filler locking insert only, 2 keys: Newton Equipment Ltd. CA-AA-056
  - Fuel filler cap only, Newton p/n AA-ZA-005
  - Fuel Cap Motone Monza 2.5" p/n NMX002

- Throttle cable. MMC item is reasonable price!

## Engine sensors, control, cooling fan, SPA oil temp/press:

For any engine related sensors check with andy.warren@yahoo.co.uk (Bunny) as he supplies many with M3W tailored improvements and cheaper than MMC.

- **Lambda Sensor**: (Bunny, correct plugs and lead length)
- 0258986615 LS615 (Bosch 4 wire) Some work needed to splice original Deutch connector.
- Lambda voltage range 0.5v to 1.1v for good sensor
- Wide Band Lambda Sensor (Emerald ECU, 5 wire) Bosch LSU 4.2 0258 077 057 or VW 021906262B
- Lambda sensor loom plug, DTM 06-4S
- **Throttle Position Sensor:** (Bunny)
- S&S 55-5058
- HD 27271-95 (Harley Tour Glide FLT/FLH 1998-2001)
- Magneti Marelli PF4C/00 (195 RE)
- SMP 275-01030.
- Cycle Pro 275-01030
- AliExpress PF4C/00 https://www.aliexpress.com/item/1005003305400563.html
- Screws are M4/0.7mm x 12mm long (original are Torx T15)
- **Stepper Motor- Idle Air Control:**
- S&S 55-5085
- HD 27628-01A
- Generic 228W8569S
- RIDEX 129810010
- **Crank Position Sensor:** (Bunny, correct lead and spacers)
- S&S 106-0734 (shorter lead?)
- S&S 55-01 (longer lead?)
- Big Dog BDM170-00382- (Requires 12" extension lead).
- Harley Davidson V-Rod 2003-2016. p/n 32313-01 ((with 5mm spacer and extension cable.
- **Wheel Speed Sensor** (E340022) (Bunny, long lead and correct plug) There are at least 3 variations for the wheel speed sensor. Check type first. Honeywell 1GT101DC or ZF GS1011201. These wheel speed sensors require a modified lead and Econoseal plug.
- **Engine Oil pressure Sensor Switch:** 08-12 HD XL 1200, 77-21 Sportster
- HD p/n 26554-77A
- Accel 505330
- **Engine Oil Pressure/Temp Gauge:**
- Merlin Motor sport. Gauge and kit SPA-DG201B (alt SPA SS301), Extension bolt ¾ ( UNF M-EB-3/4UNF, Billet sandwich plate M-TGASP200X
- SPA Oil Press/temp gauge info: See TM, KBMOG, Dec 2014. www.merlinmotorsport.co.uk or www.raceparts.co.uk
- SPA Oil temp sensor (for DG201B) TSU110
- **ECU socket cover screws**. 4-40 UNC thread.
- **Urban Cooling Fan:** SPAL VA14-AP7/C-34S 12v

## 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.
- Ignition Coil .H D p/n 31655-99 (00-06 Softail.02-06 FLT) or S&S 55-1576
- Engine start and ignition relay: Durite 0-728-14 (Better) or Ripca 2690 (OEM)

- Ignition key blank: Peugeot 205 item.

- Engine parts, Oil System and seals:
  - Engine oil: 6 Lt required.
    - Motul 7100 4T 20W-50 V-Twin fully synthetic
    - Spectro 20W-50 fully synthetic V-twin.
    - Valvoline VR-1 20W-50 Refined mineral oil.
    - Morris Race V-Twin mineral oil (MMC standard)
  - 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.
  - Engine sump plug O ring seal. 11.1mm ID 1.6 mm cross section.
  - Sump plug thread repair: M14 x 1.5mm tap and use replacement Metric magnetic sump plug. Do not try Helicoil. Do not over tighten sump plug!
  - M14 to M10 adaptor for sump plug repair. Saves alloy case thread repairs.
  - Oil tank drain valve M12 1.75mm thread. p/n F-107N QVGN (www.quickvalve.co.uk) Use 10mm drain hose. Later type oil tank only.
  - Oil pressure and Temp gauge info. See sensor section.
  - http://www.cvoharley.com/smf/index.php?topic=14309.0 relates to air cleaner venting oil and blow by oil contamination.
  - Rear Crank oil seal: SKF 19745 (caution. i/d 2'' and Centa o/d 50mm??)
  - Rear Crank oil seal, use SKF Speedi Sleeve p/n 99196 on Centa seal area to increase diameter (50mm) closer to 2" and give undamaged seal face (pos. chuck machine marks, remove any damage before fitment of sleeve)
  - Front crank pinion drive seal. TF 22x35x7mm HMSA 10V double lip Viton rotary shaft seal.
  - Cam shaft drive cover oil seals. SKF CR 8646.Single lip Viton rotary shaft.
  - Cam needle roller bearings outer (3 off) Koyo BH-1410
  - Oil Hose 8mm (5/16") ID 1.5m reqd. 13mm (1/2") ID 3m reqd. to replace all hoses. Braided hose is available -40c to +120c temp range. Merlin Motorsport
  - Crank case upper vent bung. 1/8 NPT.
  - Alt. Vent hose crankcase union. 1/8 NPT 5/16" 45 degree elbow with push on barb tail.
  - Oil filter housing to crankcase O rings. BS017 (1/16" x 11/16 ID) and BS022 (1/16" x 1" ID) Viton type.
  - X-Wedge hydraulic tappets. 3.1/3.4 GM 60 degree V6. AC Delco 61BC42N, GM 17120070, Delphi HL124
  - Engine Gasket sets. m3wsevices.com , Morgan?, mog3wheeler.com

- Transmission and Starter:
  - Gearbox sump plug (MX5) M18 – 1.5 12 square head (taper fit)
  - Gearbox original spec = Mazda MX5 (Miata) NC 3rd gen. 5 speed.
  - Gearbox oil. Castrol Transmax 75W-90 fully Synthetic GL-4 (2 Litres)
  - Alt Gearbox oil: Motorcraft XT-M5 QS Fully synthetic 75W-90 GL4
  - Gearbox rear rubber mount. Ford Cortina Mk1 (Type 9 g/box) requires slight modification to fit. p/n EM-429, GB2E400,113E6068.
  - Starter Motor: Mazda MX-5 Series 3. p/n LF9H-18-400. M000T37471.
  - **Gear lever spare parts:** (Several versions of this depending on source)
  - Gasket cover plate 0303-17-474
  - Upper change casting (forward change) R505-17-470
  - Lever nylon lower cup washer M505-17-462A
  - Lever nylon ball bush (usually worn) M501-17-515
  - Gear change wavy washer M505-17-482
  - Bush R503-17-481
  - Small shift boot 08-49001
  - Tabbed wavy washer 08-90543
  - Upper shift ball nylon bush 08-90542
  - Lower shift ball nylon bush 08-90543
  - Smooth wavy washer 08-90543
  - Lower shift nylon cup bush 08-90540

## 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.(25x52x15mm)
    - Rear swing arm bearings: Timken 33205 (25x55x22mm) taper roller.
    - Rear swing arm seal: 30x60x7mm

- 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 DP2044/3, EBC Green Stuff DP4044/3R, 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
        - Front brake caliper Banjo Bolt M10x1.0mm (Russell p/n R40506)
        - It may be possible to fit Mitsubishi Lancer Evo 5/6 brake pads, work required to modify back plate.
        - Speed Bleed Nipple (ABV) qty 4 M10x1mm thread size.
        - Front brake banjo brake size M10x 1.0 (Russell p/n R40506)
        - Parking brake warning light switch. Lucas 124SA
        - Brake light switch (hyd): 3/8 unf x 24tpi parallel thread. STSH38

    - Rear:
        - Brake Drum (9”x1.75”): LBNLCDL105AP
        - Rear Brake wheel cylinder: LB1LCG033AP. Alt. Motaquip VWC362, Unipart GWC1715, Mintex MWC155, QH BWC3238
        - Rear brake cyl. Repair kit. Autofren Saina D3167 or Ford OE-1571453 or Ford OE-70VB2128BB. (13/16” or 20.6mm dia)
        - 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 with red rubber grease. Pagid 134590648, Unipart GWC1715, Delphi LW15028.
        - Speed Bleed Nipple (ABV) qty 1 M7x1mm thread size
        - Replacement manual shoe adjuster, mod to fixed item. AP Lockheed 4158-129 SP, Delphi LA18129, Ford 1560018, GM 9961958.
        - Rear disc brake conversion: M3W Services.
        - Rear brake Flexi hose info as follows: 2.8m long AN3 1/8” ID Teflon PTFE ISS Braided, PU coated. End fittings 180 degrees to each other. Wheel cylinder end fitting: 90 degree swivel female M10x1.00. Front fitting: 90 degree swivel female, concave, 3/8”UNF x 24.
        - Rear brake line quick release, dry break. AN3 size.

- 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)
    - Michelin Commander II 110/90 B19 62H Motorcycle tyres, good grip, fast wear rate (500-2500 miles). Requires speedo recalibration. (See MTWC website for info)
    - Pirelli Night Dragon 110/90 M/C 62H TL. Similar to Michelin Commander II.
    - Metzeler ME888 110/90 , Harder sidewalls, more tread depth.
    - Shinko E270. Deep tread.
    - Mitas H-02 4.00 x19 71P (Super Side)
    - Schrader aircraft valve cap. MS20813-1
    - Alternative sealed valve caps on ebay.

- Front wheels:
  - Black: WW5771 BLACK (MG TA 2 1/2" x 19") (Motor Wheel Services)
  - Silver: WW5771S
  - Chrome: WW5771C/2
  - 3 ear spinners. KCBR4238R-MORG and KCBR4238L-MORG. (MWS)
  - Alternative light weight alloy rim wire wheels from Turrino wheels.

- Rear Wheel & mudguard:
  - Fabricate mudguard from Indispension MG008 or SKU MG008
  - Alternative Al-KO 1258626 (more square than Indispension item)
  - MMC supplied item, rivnuts into rear swing arm.
  - Rear wheel rim: Minilite 5Jx15 or Team Dynamics 5.5J x15 rim. Team Dynamics wider rim can cause close clearance with belt and tyre sidewall with some tyre makes when correctly aligned.

- Rear tyre:
  - Yokohama Blue Earth 2 (OEM fit) 175/65-R15 84H
  - Michelin Cross Climate 3 4 Season
  - Bridgestone Weather Control A005 4 Season
  - Kumho Solus HA 32 4 Season
  - Pirelli All Season
  - Yokohama Blue Earth 4S.AW21
  - Hankook Kinergy 4S2
  - Avon AS7 All Season
  - Dunlop SP Sport Blue Response
  - Kumho KH27 Ecowing ESO1
  - Avon CR6ZZ (for comp use)
  - Don't use Goodyear Vector 4 Season, sidewall is wide and hits drive belt.
  - Some makes of tyre have wide sidewall and belt clearance a problem.
  - Ensure a short valve stem is fitted as belt will remove a long valve stem!
  - OKO tyre sealant: 170749717059 (1.25 L) Puncture preventative sealant
  - Puncture Safe and Auto Seal are similar to OKO

- Suspension and Steering:
  - Rear wheel axle nut locking R clip 3mm x 72mm
  - Rear axle spanner sizes: 36mm & 24mm.
  - Rear axle adjuster spanner size: 17mm
  - Rear axle split pin size: 4mm x 40mm
  - Rear swing arm bearings : Timken 33205 25x52x22 taper roller
  - Rear swing arm bearing seal 30x60x7mm
  - Rear swing arm C spanner size: 50mm
  - Rear swing arm dust excluder cap: 48mm dia, 44mm inside 18mm deep.
  - Top and Bottom front upright ball joints: Mini Metro Mk1 up to 1984. p/n GSJ268 (several specs for this item check 14mm at top of taper) or Delphi TC301 or Moog RO-BJ-3409 or First Line FBJ5150. Motaquip VSJ473. Requires 1-13/16" deep socket. Loctite 243. Tq load to 105 lbs/ft. Taper nut Tq 56 lbs/ft.
  - Gaiters for front upright ball joints: Boot 2 from balljointboots.co.uk spec. 30x12.5 x 27mm high. (Morgan p/n SP160001)
  - Steering rack convoluted boots. Ford Escort Mk1 & 2 spec. fits.

- Track rod ends comfort kit: Early (used with female/female coupler) M14x1.5mm RH male. McGill Motorsport XMRM 14X1.5MM. Late (connects directly to track rod, RH Female) XFRM 14X1.5MM or Fluro GIXSW14X1.5
- Track rod ends Post 2014.. First Line FTR5135 or Delphi TA1903 (better)
- Complete track rod. Febi Bilstien 22767 Ford Fiesta Mk5 (2000-2012) 277mm long - cut down to 260mm. If early rack with female-female joint coupler Febi Bilstien 103606 should be used.
- Empire / Krazy Horse Front suspension wishbone rose joints: NMB Minebea ARHT6E(R) 7/16"unf RH Thread x 3/8" bore. Do not use Aurora XM6, there have been some failures with these.
- Gunson Trakrite Wheel Alignment Gauge: G4008
- Gunson Magnetic Camber Castor Gauge: 77066
- Spax Standard and Adjustable M3W shocks only available from Morgan.
- ATR Shock Absorbers. ATR MOG 001 Front. ATR MOG 002 Rear. Available from : www,dampertech.co.uk sales@dampertech.co.uk
- ATR shocks rod end bearings GE15TGR, GE15UK 15x26x9mm S Steel/ptfe
- ATR rod end O ring dust excluders 26OD x 19mm ID 3.5mm thick.
- Ohlin Shocks info. TM. JVS Nov 2015 & TM 10/10/16
- Ohlin shocks for M3W use p/n HD753 and YA009 units. Available via Krazy Horse, M3W Services and BG Motorsport.
- Shock-Factory. 2win units on rear M Sock on front. www.shock-factory.co.uk
- Steering wheel quick release: Lifeline 3 or 4 lug. April 2017 on cars Traven unit fitted, this is only available from Morgan. Caution, spline alignment issues with Traven item, see warning in MTWC info.
- B-G steering wheel spacers (3 bolt): Demon Tweeks
- 4 Bolt steering wheel spacers from Krazy Horse.

## Electrics, Battery:

- Standard Battery: Banner Starting Bull 530 30
- Standard Battery Spec: Wet. 30A, 300A cold crank, L187mm, W128mm, H165mm. Bolt through terminals.
- Landport HVT-2. (AGM 450 CCA) (5mm taller than standard)
- Duracel DURAGM 30LA-US (30A 400CCA)
- Poweroad YG19CL-BS-GEL (21a 400CCA) (10mm taller than standard)
- Odysey Gel battery : PC680
- Westco WCP30 Platinum Motorcycle battery. AGM .(400 CCA) 130mm wide
- Xtreme AGM. CYLA30LXTA. (12V, 385CCA)
- YUASA U1R. 30a/h 270 CCA (commonly available at Halfords in UK)
- JMT YTX30-FP or HJTX30FP Lithium Ion (480 CCA)
- Shido LIX30 Lithium Ion (480 CCA)
- Magneti Marelli 53034 or MM-ion-15 (32a 540 CCA) Lithium Ion.
- EarthX ETX36D Lithium Ion (405 CCA)
- Powerlite PS20 Lithium Ion (20a 630 CCA)
- Motobatt MBTX30. AGM . (385 CCA)
- Yuasa YIX30L . AGM . (385 CCA)
- Fulbat FIX30L-BS. AGM. (385 CCA)
- Varta Powersport 525 015 022 Wet (300CCA)
- Bosch LIX30L-BSQ Lithium Ion (480CCA)
- Motobatt MHTX30 (650 CCA) Hybrid battery.
- Motobatt MBU1R-35 (410CAA) requires wider tray 130mm wide
- Arteck 600a jump starter pack. For emergency use only.
- Don't use Exide AGM 12-31. Several failures.

- Charging system and supply:
  - Standard Cycle Electrics regulator/rectifier: CE 601
  - Harley Davidson Alternate Regulator: 74540-01 38amp 3 Phase. (fits 01-06 HD Softail, FX, FLST)
  - HD type. Drag Specialities p/n 2112-0808
  - 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
  - Fuse box. 20 way mini fuse module, MFSFUS20 (carbuilder.com)
  - Inertia cut out switch. MG/Rover p/n WQT 100030

- Lamps:
  - Replacement 7"headlights with DRL: PowerfulUK (ebay) Morgan ARV6 or LR Defender. (£50) p/n HL873
  - Replacement headlight, sidelight and indicator units, LR Defender 7" spec.
  - H4 Halogen Headlight bulb: Philips Extreme Vision +130.
  - H4 LED headlight bulb: H4 Philips LUXEON ZES
  - H4 LED direct replacement bulbs: Classic Bulbs p/n P43TLED-PP43
  - H4 headlight ceramic replacement plug Holden 010-338
  - 55mm red Stop tail LED unit: Part Number: LED55ST
  - 55mm LED Fog Light: LED55RF (carbuilder.com)
  - 55mm amber indicator LED units: Part Number: LED55IND from car parts builder solutions. Or Dasteri DSL0400DIF
  - Rear indicator units, chrome finish (Rutter) 2EL201L, 3EL201R
  - Chrome bullet LED indicator: 2040-0835 (Arlen Ness)
  - Black bullet LED indicator : 2040-0845.
  - Indicator Module, Morgan p/n E340098. Check 12 or 18 pin plug (See TM 2021, "Build a better TSM" email: alister@qbi-c.co.uk for 18 pin only.
  - Additional LED rear light, roll hoop mounted: Axiom Zap 2
  - Headlight shells,7"; Black. AS700B or chrome AS700SF (SVC)
  - Wire loom lighting connectors - Econoseal.
  - Indicator flasher relay. 30w p/n 10R027024 or Puretek CF14JL-02
  - Number plate festoon bulb. 11x39mm 5W BS239 (LED available.)
  - Alternative front indicator & housing. Caterham 7 items: LH, 30P199A RH, 30P198A. LED indicators: LR Defender LR048188LED. Econoseal connectors: ESC2F, ESC2M and 1.5mm seal

## Body

- Fairbourne screen made from Lexan Margard Polycarbonate. Windscreens: www.fairbournecarriages.com No longer available. Call Kevin on +44 7977070184 for spare screens cut to size.
- Exhaust mounts: Hexagon Male M8x16. HEX1384-60 or : https://www.clampcouk.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
- 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 fasterners: 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. Heavy Duty 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. Kays on Ebay.
- Chassis touch up paint. Bodyline black texture coat BPRS4
- Luggage rack replacement suction cup. Delkin Fat Gecko mount.
- Front luggage rack clamp mounts. Use 39mm truss clamps.
- Lift Dot Fasteners for tonnue, M5x10mm

## Interior

- Extra (cigar) power socket 20A 28mm flap: 60101 (Europa)
- Double 5v output USB sockets available fits in same hole as lighter socket. Several on eBay.
- Dynamat soundproofing.
- Silent Coat soundproofing 2mm and 4mm deadening vibration mat.
- 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
- Ignition key blank. Peugeot 205 item.
- Immobiliser: Sterling Excel, Made by Scorpion Automotive. www.scorpionauto.com Thatcham Cat 2.
- Immobiliser link plug, removes immobiliser from circuit. Morgan p/n E340044. Wire info M3W Parts book page 69. Make from item below.
- Immobiliser link plug make from: AMP Multilock 070 12 way female plug
- Melvyn Rutter engine turned dash panels: 3AC51L, 3AC51R.
- 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.
    - Treven type QR only available from MMC with steering wheel.
- Glove box leather Bag: https://dowcopowersports.com/willie-max-take-along-windshield-bag-large-58011-00/
- Seat Belt replacement/repair: www.bhiuk.com or www.quickfitsbs.com
- Seat belt receptacle: Type A tongue 21mm (not Type B 25mm)

## Parts Sources

- http://mattsmachineshop.co.uk S&S Parts UK supplier.
- http://www.magnecor.co.uk/product_information.asp Ignition leads
- 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 Lubricant supplies.
- **https://www.powerfuluk.com** DRL headlights lights.
- **https://www.s-v-c.co.uk** Lighting
- **https://www.mtwc.co.uk/the-5-speeder/**
- www.europaspares.com Kit car spare supplier.
- **https://vtwin.parts/vvctech/ss-cycle-s-s-x-wedge-catalog-2019.pdf**
- **https://www.lasaero.com/products/** LAS aero fastener products (Dzus)
- **www.abtproducts.com** OEM chassis manufacture
- **www.deadening.co.uk** for Silent Coat sound proofing.
- **www.dynamat.com** sound proofing material.
- **Info@ttvracing.com** Clutch manufacturers. No help to public.
- **www.secondcitycustoms.co.uk** S&S parts supply.
- **www.roosemotorsport.co.uk** High performance silicone hose.
- www.clutch-specialists.co.uk Clutch refurbishments and parts.
- **www.tayna.co.uk** Battery supply
- **www.simtekuk.co.uk** Automotive electrical connectors.
- **http://www.suspensionsupplies.co.uk/morgan-suspensions/4593177137** For Suplex shock absorber parts and service.
- **https://www.mulfab.co.uk/products/brake-pads/** M3W brake upgrade kit.
- **www.morgancustom.net** USA supply for oil coolers, fuel system upgrades.
- **https://www.bandcexpress.co.uk** Chain conversion items.
- https://www.redlineoil.com/80w250-gl-5-gear-oil-2
- www.morganpark.de M3W customisation for interiors Germany.
- www.mrwhitewalls.com Coloured sidewalls for tyres (Gulf M3W)
- www.uk.farnell.com Electrical loom plugs
- www.dampertech.co.uk . ATR shock absorbers.
- https://www.garage56.co.uk M3W upgrades for exhaust, mudguards etc.
- www.merlinmotorsport.co.uk Fuel & Oil Hose, gauges, fuel systems.
- www.turrinowirewheels.com Light weight alloy rim wire wheels.
- www.bigdogpartskingpin.com S&S X-Wedge engines and parts.
- www.wollasgarage.de X-Wedge parts gaskets, crank repairs. Germany
- www.krazyhorse.co.uk All things M3W and S&S.
- www.bleazey.co.uk Very informative maintenance videos and information.
- andy.warren@yahoo.co.uk Replacement engine sensors.
- alister@qbi-c.co.uk Replacement and improved Turn Signal Module 18 pin only. (contact Chris Golding, possible stock)
- https://shock-factory.co.uk M Shock and 2win shock absorbers for M3W.
- www.retrofitpats.co.uk AMP and Deutsch electrical connectors.
- www.classicbulbs.co.uk LED bulbs and conversions.
- www.raceparts.co.uk SPA oil Px+Tx gauge spares.
- www.bhiuk.com Seat belt parts and repairs. Graham White Tel 01522 689911
- www.quickfitsbs.com Seat belt parts and repairs.

## Services, info. etc.

- Urban Cooling Kit instructions PDF: https://drive.google.com/file/d/0B597PkI-M0WqWEk2Tk5UeFk5Mms/view?usp=drivesdk
- S&S Engine service manual: 106-0735 . Available online via MTWC website.
- Supermax sprocket conversion: vyvyanross@yahoo.com www.supermax.net
- V 5.2 MMC M3W parts manual: https://www.4shared.com/get/H-5MmbB8ei/M3W_Parts_Book_V52.html
- Loctite 243, use this to secure just about everything on the M3W.
- Fast or erratic idle at standstill: Motor Kit Idle Control S&S 55-5085 or HD 27628-01A. Clean it out with carb cleaner before replacing .
- Protune: voltage oscillation range of the lambda probes is 0.5 V to 1.1 V approximately for good sensor
- Autosol Blueing Remover Stainless Steel Exhaust Cleaner Colour Restorer 150ml.
- Turn Signal Module. Morgan p/n E340064. If faulty it can cause engine to run on as well as several indicator and light faults. Two types 12 & 18 pin.
- M3W Services UK https://www.m3wservices.com Mail to: craig@M3Wservices.com All M3W servicing and upgrades work UK.
- M3W Services France and EU https://www.m3wservices.com Mail to: info@M3Wservices.com All servicing and upgrade work EU.
- www.bleazey.co.uk Centa and chain drive kits plus other useful stuff. Lots of info available. Now retired but products available, see mog3wheelr.com from Spring 2026
- Dan Sim. St Ives Engine Services www.st-ives-engines.co.uk Protune 2 expert.
- https://www.gov.uk/government/publications/mot-inspection-manual-for-class-3-4-5-and-7-vehicles
- www.youtube.com Morgan 3 Wheeler Workshop. Phil Bleazey's "how to" videos.
- Lots of info for M3W/5 Speeder available via https://www.mtwc.co.uk/the-5-speeder/
- M3W Buyers guide: https://www.mtwc.co.uk/wp-content/uploads/2020/07/Final-150.pdf
- S&S X-Wedge (metric?) engine rights owner. Hyosung. X-Wedge Motorcycles
- mog3wheeler.com (from Spring 2026) Bleazey upgrade and X-Wedge engine parts.

## Miscellaneous.

- Davida Goggles/Glasses: 74 WRS. From Greycar (£36)
- Morgan M3W jacket = Spada Dyno (less M3W badge).
- Crash Helmets; Caberg Riviera V2+
- Bolle Tracker safety glasses with strap. Clear or tinted. Good value.
- Bolle Silium+ safety glasses Clear or tinted (available at Screwfix).

I do not personally check all these items for compatibility or suitability, they are just what has been gleaned from Talk Morgan and information from other owners. Please do your own research before ordering anything. This information is just to point you in the right direction.

If you have any additions that can be added to this list please email them to:

fivespeedermtwc@gmail.com