

M3W Alternative Parts List

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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. 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
 - Bevel Gearbox rebuild: TM Bwitted 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
 - Alternative oils: Millers EP 140
 - Redline Heavy Shockproof 75W/250
 - Amsoil 75W/140 Severe Gear Oil

- **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

- **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 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
 - 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 internal cap key: Newton Equipment Ltd. AA-AC-008 (Key 044)
 - Fuel Cap Motone Monza 2.5" p/n NMX002
 - Throttle cable. MMC item is reasonable price!

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- **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 $\frac{3}{4}$ (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.

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- **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.

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- **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

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- 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.

- **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.

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- **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 mudguard:**
 - Fabricate from Indispension MG008 or SKU MG008
 - Alternative AI-KO 1258626 (more square than Indispension item)

- **Rear tyre:**
 - Yokohama Blue Earth 2 (OEM fit) 175/65-R15 84H
 - Michelin Cross Climate 2 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.
 - 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)

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- 277mm long - cut down to 260mm. If early rack with female-female joint coupler Febi Bilstein 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](http://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 Tweaks
 - 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)
- Odyssey 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.

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- **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 Specialties 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 type or LR Defender. (£50) p/n HL873
 - H4 Halogen Headlight bulb: Philips Extreme Vision +130.
 - H4 LED headlight bulb: H4 Philips LUXEON ZES
 - H4 headlight ceramic replacement plug Holden 010338
 - LED 7" Replacement headlamp units Wipac S7096LED
 - 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
 - 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
 - Headlight bulb ceramic plug- Holden Vintage and Classic 010-338
 - 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

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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
- Rear indicator units, chrome finish (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. 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. Keys 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 tonneau, 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)

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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 Centa and chain drive conversion kits, gaskets, plus more.
- andy.warren@yahoo.co.uk Replacement engine sensors.
- alister@qbi-c.co.uk Replacement and improved Turn Signal Module 18 pin only.
- <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.

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Services, info. etc.

- Urban Cooling Kit instructions PDF: <https://drive.google.com/file/d/0B597Pkl-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 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.
- Dan Sim. St Ives Engine Services www.st-ives-engines.co.uk Protune 2 expert.
- B&C Express Potterhanworth. 01522 791369, LN4 2DX. Talk to Chas about chain drive conversion, or better still call Phil Bleazey
- <https://www.gov.uk/government/publications/mot-inspection-manual-for-class-3-4-5-and-7-vehicles>
- 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?) rights owner. Hyosung. X-Wedge Motorcycles

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).

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

fivespeedermtwc@gmail.com