

THE GOLDENFROG SERVICING LIST

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The list below is intended as comprehensive check list to help you and/or your mechanic keep your Morgan running throughout the year trouble-free. It is



intended as an **annual** or 10,000 mile servicing but will reap benefits whenever it is done. Of course, it should be mildly modified to reflect each particular models differences. It is a work-in-progress and will become more interactive over time with more links to detailed explanations. Any contribution you feel is missing will be welcome and merit a credit.

The [GoMoG Manual](#) sections will supplement this guide, especially with specific issues to be repaired rather than maintenance *per se*. This effort is primarily a big dose of preventative medicine. The goal is to reverse the marque's current reputation, developed as much from a lack of owner effort and knowledge as current build quality and design. You can stagger the work over time if you so choose.

We remind you of the [safety](#) aspect when carrying out this work if you are unfamiliar with the good practices required to avoid any injury. While working around the car, one should also inspect the condition of the chassis and bodywork for damage or corrosion. We also work with a set of spanners and screw drivers at hand to test bolts and screws as we go.

No list is completely exhaustive, but long experience shows this one has an excellent chance of keeping you far more trouble free than others. If you do not choose to do it every year, get a price from your mechanic to do it. It should take a capable professional two days to complete. We suggest you print these pages and check off each task as it is done. If you have a

question, have yourself or your mechanic click the task where you have a question..and send it on to GoMoG!

[PDF](#) or [WORD](#)

<u>WHEELS AND TYRES</u>	Done
<u>Check tyre pressure</u> (check your manual for the correct pressure)	
<u>Check condition of tyres</u> – cracked surface, tears or hernias on tyre walls, expiration date	
<u>Check wheels – damaged rims, corrosion, lost balance weights</u>	
<u>Check play at front wheel bearings and adjust if necessary</u>	
<u>Wire Wheels Check</u> tension of spokes, condition and play of Rudge splines and <u>adjust</u> (or adjust II [video]) when necessary	.
<u>Wire Wheels Clean</u> and <u>re-pack Rudge splines on hubs and wheels</u>	.
<u>Alloy wheels</u> – apply Copperslip (anti-seize) to inner face of wheel resting on the hub	.
Check for tyre rubbing	
<u>Have your alignment checked and redone</u>	
Have your wheels balanced <u>Wheel Section 5</u>	
<u>Rotate Your Tyres</u>	
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<u>FRONT BRAKES</u>	
<u>Check brake pads for wear</u> <u>Section 9</u>	.
Check Brake Pads (<u>if there is a lip, remove and chamfer</u>)	
<u>Check Brake Rotors/Callipers</u>	
<u>Check Seals</u>	
Check <u>brake hose</u> (twist, scuff, and cracked rubber)	.
<u>Check disc (thickness/runout, scoring).</u>	.
Check bolts and <u>install caliper bolt/lock wires</u>	.
<u>Bleed front brakes</u>	.
<u>Check brake reaction bars</u> (if you have installed them)	
<u>Check Fluid Level</u> (change every 2 years)	
<u>Brake TroubleShooting</u>	
FRONT SUSPENSION AREA	

Check play in bushes.	.
Clean bottom part – check for rust on kingpin (switch to hardchromes)	.
Check bottom nyloc nut and base plate bolts or tightness	.
Check one-shot lube bolt – brush clean and lube the one shot union (with WD40) (pre-2002)	.
Check one shot pipe (pre-2002)	.
Check the wing/side-light nuts for tightness	.
Check wing stay (replace them with your own if you have a post 2001 version)	
Clear vent hole at bottom of top tube of slider (<i>yes there is one at the rear</i>)	.
Grease bushes with method dictated by model year	.
Change damper blade shims – turn damper blades over – grease (pre-2008)	.
Check shocks for proper function. (<i>article needed!</i>)	.
Check front indicator lights Electrical Index Section 11	
Check front parking lights Electrical Index Section 11	
Check wing lights	
Check Hazard Lights Electrical Index Section 11	
Check Headlamp Alignment	
Check horn (s)	
Check bumper bolts, attachments and support bolts	
STEERING BOX CARS	
Check column end float – Lube top bush (steering box cars) Steering Section 5	.
Check oil level (steering box cars) Steering Section 5	.
Check oil seals on steering box (steering box cars) Steering Section 5	.
Adjust nut or peg Gemmer or Burman (steering box cars) Steering Section 5	.
Check split pin on drag link clamp (steering box cars) Steering Section 5	.
Check play and lube ball joints on drop arm, drag link and coupling bars (steering box cars) Steering Section 5	.
Check and lube U-Js on steering column Steering Box	
STEERING RACK CARS	
Check steering play	.

<u>Adjust rack if necessary</u>	
Check and lub U-Js on steering column <u>R&P</u>	.
Check all gaiters for damage and/or leakage. <u>Replace if necessary.</u>	.
<u>Check 4 bolts at center joining plate. Mark them for quick visual reference. (check plate for cracks and/or splitting)</u>	.
<u>Check bolts and square spacers holding rack to cross frame</u>	.
<u>Remove and fill end gaiter</u> (one cone or 1/2 cup should be enough unless gaiter is replaced or completely dry)	.
<u>COOLANT SYSTEM</u>	
<u>Check rad hoses for correct firmness, cracks or rubbing</u>	.
Check rad for leaks or rubbing	.
<u>Check coolant level</u>	.
<u>Test coolant quality</u>	.
Change <u>coolant</u> . <u>Flush</u> and change every two years	.
<u>Check rad cap for leaks when hot</u>	.
<u>Test Coolant for electricity</u> (very important for alloy engines and rads)	
Check fan function and the direction the blades are turning <u>Cooling Section 6</u>	
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<u>ENGINE AREA</u>	
Drain oil – replace oil filter – Fill up (All cars save Plus 8s <i>see below</i>)	.
Fill new oil filter - <u>replace old oil filter</u> - Drain & fill up. (Plus 8s only)	.
Replace spark plugs – check & adjust gap to engine's spec	.
<u>Examine old plugs for condition</u>	.
<u>Checking spark plug wires/leads & connectors</u>	.
Check heater valve cable	.
Check fan belt tension and wear <u>Note for later Plus 8s</u>	.
Check dynamo or alternator wiring	.
Check regulator and fuse box for corrosion (if applicable)	.
Check all engine mountings for bolt tightness and cracks in the rubber sections	.
Check slave cylinder leaks and clutch master cylinder fluid level (if	

hydraulic) (change both fluid every two years)	
Check, lub and adjust clutch linkage and cable	.
Check, lub and adjust accelerator linkage and cable	
Check function of Inertia Switch	.
Check engine earth (s) VERY carefully (both sides of the strap) for broken strands or a bad contact	.
Clean and dielectric grease earth strap(s) contact (s) on chassis	.
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CARB ENGINES	
Adjust tappet clearance (Push rod engines)	.
Check throttle and choke cable – adjust tension. if necessary	.
Check carb linkages for wear (Especially twin SUs)	.
Check wear in butterfly spindles to body	.
Check mixture and idle speed- Check balance (twin carbs)	.
S.U: check dash pots oil level Fuel Index Section 6	.
Strombergs Fuel Index Section 7	
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DISTRIBUTOR IGNITIONS	
Check distributor cap – contact points for cracked Bakelite Ignition Index	.
Check condition of rotor Ignition Index	.
Check wear on distributor shaft. (especially Kent engine)	.
Check condition and function of vacuum auto advance hose	.
Check function of vacuum advance (with strobe)	.
Check dynamic advance (with strobe)	.
Check throttle cable – adjust tension if necessary	.
Change (or clean with K&Ns) the air filter (s)	.
Change contact breaker – adjust points	
Check dwell angle (if needed)	
EFI	
L-JETRONIC (1984-1990) PLUS 4 & PLUS 8	
Check the CO2 level of the exhaust gas	.
HOTWIRE (1991-2000) PLUS 4 & PLUS 8	

Run a Diagnostic Check, resolve and clear fault codes Section 3	
ALL OTHER EFIs	
Run a Diagnostic Check, resolve and clear fault codes	

COCKPIT	DONE
Check all fuses and relays	
Check wiper blades – 1 drop of Vaseline oil on spindles	.
Grease wipers rack and pinions	.
Grease thrust bearing sleeve (Series I, early Plus 4 and Moss box Plus 8s)	.
Grease pedal set and throttle pedal	.
Check pedal rubbers, change if required	.
Grease hand brake ratchet and cable	.
Check gearbox level (change every 10,000 miles)	.
Check play and grease zirks on front propshaft U-J. Omit the one on the propshaft.	.
Check spline on prop shaft (early cars)	.
Check propshaft to gearbox nuts for tightness	
Lube seat sliders <i>Use a greaseless spray lubricant</i>	.
Clean and recondition leather	.
Check all electrics and gauges are functioning correctly Instruments	.
Lube bonnet hinge and catches (Vaseline oil)	.
Lube door hinges and catches Metal Section 3	.
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REAR COMPARTMENT	
Check and clean battery terminals	.
Apply petroleum jelly or dilectric grease to terminals	.
Check battery acid level (if applicable)	.
Check battery earth VERY carefully (both sides) for broken strands or a bad contact	.
Check play and grease rear zirk on prop shaft U-J	.
REAR BRAKES	

Remove brake drums – check shoe wear	.
Check slave cylinders for leakage and/or gaiter/seal cracks	.
Clean and grease hand brake mechanism	.
Clean and free hand brake adjuster (pre-June 1993)	.
Check half shaft oil seal	.
Grease and re-pack half shaft bearings	.
Check brake drum . Clean and refit	.
Adjust brake shoes (pre-June 1993)	.
Adjust hand brake cable (post-June 1993)	,
Safety Brake Watchpoint (post-June 1993)	
Check brake hoses and lines	.
Bleed rear brakes	.
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REAR AXLE	
Grease Salisbury Axle (pre-1995) (it is unnecessary to grease BTR axles)	.
Check level in Axle	
Drain and replace oil (Salisbury every 3000 miles, BTR every 30,000 miles)	.
Grease rear propshaft U-J nipple	.
Check propshaft to axle nuts for tightness	.
REAR SUSPENSION	
Check leaf springs for breaks	.
Chain lube leaf springs	.
Re-tighten U-bolts nyloc nuts or stoffer nuts	.
Check shock absorbers – check for leaks (or oil level on Armstrongs)	.
VERY REAR	
Check fuel tank for leaks	.
Check fuel tank filler hoses and clamps for cracks and function	
Check rear wiring harness (WD 40 or dilectric grease on bullet connector bundle on R.H side)	.
Check spare wheel and tyre for cracks and wear	.
Check rear valance bottom rail bolts and rear panel bottom rail for wood rot	.
Check tyre pressures including spare	.

Check brake lights	
Check running light (aka rear fog) (if you have one)	
Check reverse light function	
Check registration plate light (s)	
Check rear indicator lights	
<u>EXHAUST</u>	
Check exhaust and manifolds for leaks	.
Check exhaust rubber mountings	.
Test drive.....and enjoy!	