



# THE UNIVERSITY MOTORS MGB COMPLETE LUBRICATION



NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MODEL \_\_\_\_\_  
VIN \_\_\_\_\_ MILES \_\_\_\_\_ DATE \_\_\_\_\_ INITIAL \_\_\_\_\_

## PRELIMINARY

\_\_\_ Inflate tires to 30# front / 32# rear

## TEST DRIVE

\_\_\_ Record Oil Pressure: \_\_\_\_\_ @ Idle \_\_\_\_\_ @ 50 mph  
\_\_\_ Listen for clunks / rattles / squeaks / buzzes / ticks / clunks / clacks .....

## COOLING SYSTEM

\_\_\_ Test for water pump wobble  
\_\_\_ Pressurize system to 15 psi  
\_\_\_ Drain Coolant (open draincocks or remove hoses)  
\_\_\_ Remove thermostat  
\_\_\_ Disconnect heater  
\_\_\_ Disconnect heater control valve  
\_\_\_ Flush radiator / block / heater matrix / heater control valve  
\_\_\_ Boil thermostat to ensure opening at 190°F (88°C)  
\_\_\_ Refit or replace thermostat (GREASE on new gasket)  
\_\_\_ Refit heater control valve gasket (GREASE on new gasket)  
\_\_\_ Replace hoses and tighten all hose clamps  
\_\_\_ Refill with fresh anti-freeze  
\_\_\_ Test anti-freeze for freezing point \_\_\_\_\_ °F  
\_\_\_ Pressurize to 15 psi

## POWERWASH engine bay

## RIDE HEIGHT & SHOCKS

\_\_\_ Bounce corners to test shocks. Record below  
\_\_\_ RIDE HEIGHT Measure from ground to chrome strip.. Record below

## MOVE MG ONTO LIFT or JACK STANDS

## KINGPINS

\_\_\_ Inspect vertical movement in kingpins  
\_\_\_ Inspect wear at bottom kingpin bushing

## ROAD WHEELS

\_\_\_ Manufacture date. Record below:  
\_\_\_ Measure tread. Record below:  
\_\_\_ Ting spokes  
\_\_\_ Estimate WW tightness (assistant). Record below:  
\_\_\_ Spin tires for trueness. Record below:  
\_\_\_ Remove wheels / Measure spline diameter Record below

## REAR SUSPENSION

\_\_\_ INSPECT spring condition  
\_\_\_ INSPECT rear dampers  
\_\_\_ INSPECT shock links  
\_\_\_ TIGHTEN anti-sway bar (5/8" & 11/16")  
\_\_\_ TIGHTEN diff U bolts one turn

## OILS

\_\_\_ DRAIN Engine / Gearbox / Differential  
\_\_\_ TIGHTEN filter head (68-80 MGB)  
\_\_\_ Loosen / Retighten main battery connexions at starter solenoid

## FRONT WHEEL BEARINGS

\_\_\_ Remove front brake pads  
\_\_\_ Remove split pin, tighten front hub nut, determine end float  
\_\_\_ Remove outer wheel bearing, grease, adjust hub end float.  
\_\_\_ Lay pads back in place  
\_\_\_ Inspect front brake hoses

**REAR BRAKES**

- \_\_\_ Back off adjusters
- \_\_\_ Disconnect handbrake from LH backing plate
- \_\_\_ Remove drums
- \_\_\_ Inspect for oil / brake fluid leaks
- \_\_\_ Inspect for frozen cylinders
- \_\_\_ Inspect spring positions
- \_\_\_ Ensure handbrake levers are free
- \_\_\_ Inspect steel brake lines on differential
- \_\_\_ Inspect flexible brake hose
- \_\_\_ Inspect front diff seal for leakage
- \_\_\_ Sand brake shoes
- \_\_\_ Sand brake drums
- \_\_\_ Refit brake drums
- \_\_\_ Grease and adjust rear brake adjusters (1/4" square)

**WITH AN ASSISTANT****FRONT BRAKES**

- \_\_\_ Exercise front brake calipers (3X each piston)
- \_\_\_ Spray down / blow off brake calipers and rotors
- \_\_\_ Sand front brake pads
- \_\_\_ Fit duct tape to rear side of pads
- \_\_\_ Reinstall pads
- \_\_\_ BLEED BRAKES – rears then front

**HANDBRAKE**

- \_\_\_ Exercise handbrake cable & reconnect LH cable to lever
- \_\_\_ Adjust handbrake handle to 30°→45°

**RACK & PINION**

- \_\_\_ Inspect gaiters
- \_\_\_ Remove shim pack and lubricate rack
- \_\_\_ Refit shim pack removing thinnest shim
- \_\_\_ Inspect steering U Joint

**RELEASE ASSISTANT****PROPELLER SHAFT / DRIVE SHAFT**

- \_\_\_ Inspect U joint orientation – fixed axis parallel
- \_\_\_ Inspect front and rear U Joint
- \_\_\_ Inspect slip joint for wear
- \_\_\_ Lubricate U joints and slip joint
- \_\_\_ Tighten flange bolts
- \_\_\_ Inspect gearbox mounts

**FUEL SYSTEM**

- \_\_\_ Inspect fuel tank and sending unit
- \_\_\_ Inspect fuel pump
- \_\_\_ Inspect fuel lines (tank to pump, pump to steel line)

**EXHAUST SYSTEM**

- \_\_\_ Inspect straps and mounts
- \_\_\_ Inspect for holes / rust / damage
- \_\_\_ Inspect engine earth strap

**AIRVENT BULB**

- \_\_\_ Blow out detritus

**OILS**

- \_\_\_ Refill Differential (GL4 80/90)
- \_\_\_ Refill Gearbox (20W/50)

## FRONT SUSPENSION

- \_\_\_ Inspect kingpins
- \_\_\_ Inspect distance tube movement / wear on bolt
- \_\_\_ Inspect A Arms and bushings
- \_\_\_ Inspect outer tie rod ends and boots
- \_\_\_ Inspect inner tie rod ends for movement
- \_\_\_ Tighten front shocks (deep 9/16" socket)
- \_\_\_ Lubricate kingpins
- \_\_\_ Top off front shocks
- \_\_\_ Inspect steel and flex brake lines

## CAR BACK DOWN on TERRA FIRMA

## BONNET RELEASE

- \_\_\_ Lube and exercise bonnet cable
- \_\_\_ Lubricate bonnet funnel
- \_\_\_ Lubricate bonnet support
- \_\_\_ Lubricate bonnet hinges

## HEATER VENT CONTROLS

- \_\_\_ Lubricate and exercise heater cable
- \_\_\_ Lubricate and exercise air control cable
- \_\_\_ Oil heater valve

## UNDERBONNET

- \_\_\_ Top off master cylinders
- \_\_\_ Top off carburetter dashpots
- \_\_\_ Top off washer solvent
- \_\_\_ Tighten throttle pedal pivot bolt
- \_\_\_ Inspect and adjust fan belts
- \_\_\_ Inspect motor mounts / brackets / earth strap
- \_\_\_ Replace oil filter
- \_\_\_ Refill engine with 20W/50 high zinc oil
- \_\_\_ Spin engine to achieve oil pressure / check for leaks

## FUSEBOX

- \_\_\_ Remove and clean fusebox
- \_\_\_ Disconnect or fuse OD / TCSA circuit

## CARBURETTER(S)

- \_\_\_ Inspect / replace air filters
- \_\_\_ Inspect / replace fuel filter
- \_\_\_ Inspect PCV / ELC lines
- \_\_\_ Tighten Stromberg autochoke

## WIPERS

- \_\_\_ Inspect operation
- \_\_\_ Inspect / Replace wiper blades
- \_\_\_ Adjust wiper park position
- \_\_\_ Adjust blade angle to ensure wiping
- \_\_\_ Clear / Adjust windscreen washer

## INTERIOR

- \_\_\_ Lubricate seat rails / Exercise seats
- \_\_\_ Oil door hinges
- \_\_\_ Oil and Tighten door latches and strikers
- \_\_\_ Tighten visors
- \_\_\_ Remove and Tighten rear view mirror
- \_\_\_ Align / Tighten gearlever knob
- \_\_\_ Oil / Adjust glovebox lock
- \_\_\_ Lubricate key switch (graphite)
- \_\_\_ Fire extinguisher?

## PEDALS

- \_\_\_ Inspect / Adjust pedal freeplay
- \_\_\_ Inspect pedal sideplay

**BATTERY**

- \_\_\_ Remove battery / wash down with soda
- \_\_\_ Clean battery posts
- \_\_\_ Clean / Replace battery clamps
- \_\_\_ Loosen / Retighten earth strap at body
- \_\_\_ Refit battery and tie down
- \_\_\_ Top off rear shocks

**SEAT BELTS**

- \_\_\_ Ensure smooth operation
- \_\_\_ Tighten loose seat belt fasteners

**BOOT**

- \_\_\_ Inspect / Lubricate jack
- \_\_\_ Tighten / Lubricate boot slide
- \_\_\_ Ensure tools are in bag (spanner / hammer)
- \_\_\_ Tighten boot latch to body and 2BA nut to latch mechanism
- \_\_\_ Inspect for and condition of tonneau / half-tonneau / tonneau bars
- \_\_\_ Inflate spare tire
- \_\_\_ Inspect / Replace ELC lines from tank and condensing canister

**SOFT TOP**

- \_\_\_ Inspect snaps / Lift-the-Dot studs / latches Push beeswax or carnuba wax into the female snaps
- \_\_\_ Inspect condition of windows and for tears / Ensure rear flap is glued
- \_\_\_ Tighten six top bow screws

**EXTERIOR**

- \_\_\_ Inspect / Tighten antenna
- \_\_\_ Inspect door handles
- \_\_\_ Rattle bumpers / overrides
- \_\_\_ Rattle grille
- \_\_\_ Tighten mirrors / pack for rattles

Corner	Tire Size	Manf Date	Tread Depth	Faulty Spokes	Rotational Freeplay	Spline Diameter	Ride Height
Right Front							
Left Front							
Right Rear							
Left Rear							

**LAMPS & LIGHTS**

LEFT				INTERIOR	RIGHT			
SIDE	PARK	TURN	HORN	IGN LITE	HORN	TURN	PARK	SIDE
HIGH BEAM		LOW BEAM		DASH RHEO	HIGH BEAM		LOW BEAM	
				BRIGHT FLASH				
				HAZARDS				
SIDE	PARK	TURN	REVERSE	INTERIOR	REVERSE	TURN	PARK	SIDE
BRAKE		LICENCE		(LEFT) CANCEL (RIGHT)	LICENCE		BRAKE	
				BOOT				

QUESTIONS? COMMENTS! JohnTwist@UniversityMotorsLtd.Com 616 307 6737