

# **Maintenance and Lubrication to Keep Your MG Running for a Hundred Years**

*Presented at the 60<sup>th</sup> Anniversary GOF-South, April 2026*

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Classic MG Club*

Lubrication is the Number One task to keep our MGs running for a hundred years, but the oils and greases specified by MG are no longer available. Most modern lubricants have additives that protect better than anything available when our cars were built, however, some can harm vital MG parts. This document gives the facts about modern lubrications and MG requirements so that you can confidently choose the products that are best for your car and your driving style.

Included are maintenance schedules and lubricant recommendations tailored for TC, for TD/TF, for MGA, and for MGB. These can serve as a practical way to track completed maintenance. The guides assume original or original-type components. For aftermarket parts, consult the manufacturer for recommendations.

The information was compiled from MG Operation Manuals and Workshop Manuals, oil company documents, and respected lubrication and MG experts.

- Follow the recommendations in this document.
- Review oil company labels and Product Data Sheets (PDS) periodically – the formulations can change without notice. If a product no longer meets your needs, then find an alternative.
- If your MG is serviced by a shop, then share and discuss these guidelines.
- Refer to your MG Workshop and Operation Manuals for detailed instructions and diagrams.
- If you don't have the manuals, then download them and the latest revision of this document for free here:

<https://tinyurl.com/mgmanuals>

Safety Fast



## **Key Points**

### **ENGINE OIL**

- Disclaimer: *Some oil experts say that special "Classic Car" engine oils are not needed for our MGs because modern oils have new additives that protect engines just as well as oils that have high levels of ZDDP. I prefer to err on the side of proven results, so I follow the facts listed below. [L.C.]*
- The primary anti wear additive in engine oil is ZDDP, a Zinc/Phosphorous compound often called "Zinc". Actually, the Phosphorous "does the work." It bonds to steel surfaces and creates a sacrificial wear-layer between moving engine parts as the pressure and surface temperature reaches around 300F. As the layer wears, more is deposited to renew it. After the surface cools, residual ZDDP helps protect during cold engine startup when wear is greatest. ZDDP also protects against oxidation and corrosion.
- Engine builders noticed a rapid increase in cam and tappet failures in flat tappet engines when mandates in 2004 reduced Zinc levels to 800ppm to decrease blow-by damage to catalytic converters.
- API allows up to 1200ppm Zinc in "Classic" and "Racing" oils, and in oils with viscosity greater than SAE 30. Non-API oils can have ZDDP content greater than 1200ppm.
- Don't add ZDDP additives to your engine oil. It may INCREASE wear. Too much ZDDP can create a thick layer that sluffs off, taking the bonded steel with it. An engine with extreme levels of ZDDP can fail within minutes.
- Calcium detergent dispersal agents keep impurities suspended in oil until removed by the oil filter. Too much Calcium removes ZDDP from wear-surfaces.
- Diesel engine oil is not a good choice. High detergent levels and additives for unique diesel requirements.
- Conventional mineral oils and synthetic base oils are equally good.
- Change oil and filter every 6 months (12 months maybe) because water and gasoline in oil from short drives and cold engines deteriorate the additives in engine oil to become acidic.
- Goals when choosing engine oil:
  - 1200-1500ppm "Zinc" and about same concentration of Phosphorous; less than 1200ppm Calcium.
  - 20W-50 is generally considered to be the best choice.
  - Affordable and widely available.
- **SUGGESTIONS:** *If you can't find the Zinc content in the oil manufacturer's product information, then **don't buy it.***
  - Many good oils are available.
  - Most 20W-50 oils are appropriate for MGs. Read Product Data Sheets to confirm.
  - Valvoline VR1 20W-50 conventional mineral oil meets all of the goals. 1400ppm Zinc; 1300ppm Phosphorous, less than 1200ppm Calcium. Readily available. Reasonably priced. 5-qt bottle good value.
  - Check new Product Data Sheets frequently. Oil formulations change without notice..

### **ENGINE OIL – COLD STARTS**

- Don't let the engine idle slowly at startup. Run at approx 1,000 RPM to reach temperature quickly, then drive.

## OIL FILTER

- T-ABCs and early TDs had disposable vertical oil filters that could not be serviced. No longer available. Aftermarket replacements similar to the original have replaceable filter elements.
- Late TDs, TFs, MGAs, and 1962-1968 MGBs had oil filter canisters with replaceable filter elements.
- 1968-1980 MGBs had spin-on filters.
- **SUGGESTIONS:** TC, TD thru engine #14223
  - Reproduction oil filter canister by From the Frame Up #SKU EE572. Element #SKU EE576,
- **SUGGESTIONS:** TD starting XPAG #14224, TF, MGA, 1962-1968 MGB
  - NAPA Gold 1300 or Wix 51300 oil filter elements, or filters from MG parts suppliers.
    - Replace the old rubber gasket. Usually three gaskets with the filter. Choose the one that fits best in the groove in the base of the oil pump. TD/TF = .171" tall X .086" inside to outside.
- **SUGGESTIONS:** 1968-1980 MGB
  - GFE121. Check cross-reference for brands/item number. May vary for hanging vs. inverted adapters

## DIFFERENTIAL

- MG differentials have hypoid gears that allow the drive shaft to be attached below the center of the differential to lower the car's floor height. The gears slide against each other under high pressure. They require special "hypoid" gear oil with Extreme Pressure (EP) Sulphur/Phosphorous additives that create a sacrificial chemical layer of iron sulfide on the metal.
- The gear oil bottle or oil companies' Product Data Sheets (PDS) must state that it is for "hypoid Gears". If you can't find "for hypoid gears" in the oil manufacturer's product information, then **don't buy it**.
- MG differentials have two or four copper or bronze ("yellow metal") thrust washers to keep the gears in mesh.
- Modern GL-5 hypoid gear oils have about twice as much Extreme Pressure additives as GL-4. The high levels can cause the sacrificial layer to bond to and peel off some of the surface from the soft copper/bronze thrust washers.
- Some synthetic GL-5 hypoid gear oils claim to not damage yellow metals. They have "1b" copper corrosion test rating, indicating less damage to yellow metals than conventional GL-5 gear oil. The test range is "1a" to "4c". No GL-5 gear oil is "1a". Use it only if you feel OK about the possible increased damage.
- GL-4 hypoid gear oils have about half the level of EP additives as GL-5 gear oils. GL-4 has copper corrosion test rating "1a" (best). If you want GL-4 but the label or PDS doesn't say "GL-4", then **don't buy it**.
- Doug Pelton, Barney Gaylord, and John Twist recommend GL-4 hypoid gear oil for MG differentials.
- **SUGGESTIONS:** TC (You must decide: GL-4 or GL-5)
  - GL-4 Hypoid Gear Oils "1a": Sta-Lube API/GL-4 Multi-Purpose Gear Oil SAE 140; Castrol Classic EP140 Gear Oil GL-4; Miller's Oils EP Gear Oil GL-4 EP 140
  - GL-5 Hypoid Synthetic Gear Oils "1b" may damage "yellow metal"(?): Millers Classic Differential Oil EP 85W140 GL-5
- **SUGGESTIONS:** TD, TF, MGA, MGB (You must decide: GL-4 or GL-5)
  - GL-4 Hypoid Gear Oils "1a": Sta-Lube API/GL-4 Multi-Purpose Gear Oil SAE 90; Castrol Classic EP 90 Gear Oil; Dynolite Mild EP 90; Miller's Oils EP Gear Oils GL-4 EP 80W90
  - GL-5 Hypoid Synthetic Gear Oils "1b" may damage "yellow metal"(?): Red Line 75W90 GL-5 Gear Oil; Millers Classic Differential Oil EP 90 GL-5; Lucas SAE 75W-90 Synthetic Gear Oil

## GEARBOX

- MG-T original manuals specify the same gear oil for the gearbox that was used in the differential. Some TC/TD/TF enthusiasts recommend modern gear oil that is just for gearboxes instead of the gear oil that is in their differentials.
- MGA and MGB manuals specify engine oil for gearboxes. Some owners recommend 90W GL-4 gear oil.
- MG gearboxes have brass “yellow metal” synchronizes, so **do not use GL-5 gear oil**.
- **SUGGESTIONS:** TC
  - Sta-Lube API/GL-4 Multi-Purpose Gear Oil SAE 140; Castrol Classic EP140 Gear Oil GL-4; Miller's Oils EP Gear Oil GL-4 EP 140
- **SUGGESTIONS:** TD/TF
  - Red Line MT-90 GL-4. “Not recommended for hypoid gears.” Often recommended TD/TF gearbox oil by MG owners. George Pardee, TF racer, recommends Sta-Lube API/GL-4 Multi-Purpose Gear Oil SAE 140
- **SUGGESTIONS:** MGA, MGB
  - Engine oil: Valvoline VR1 20W-50, or other good 20W-50 engine oil.
  - Gear oil: Red Line MT-90 GL-4

## STEERING BOX, RACK & PINION GEAR OIL

- MG specified the same gear oil that is used in the differential.
- Do not use chassis grease. See info in Workshop Manual.
- Some aftermarket steering racks do not require lube.
- **SUGGESTIONS:** TC
  - Sta-Lube® API/GL-4 Multi-Purpose Gear Oil 140; Castrol Classic EP140 Gear Oil GL-4; Miller's Oils EP Gear Oils GL-4 EP 140; Penrite Semi Fluid & Steering Box Lube NLGI #00 (*not for Rack & Pinion*) FTFU #AC932 (recommended by Nick Pardee, Gold Seal LLC)
- **SUGGESTIONS:** TD/TF/MGA/MGB
  - Sta-Lube® API/GL-4 Multi-Purpose Gear Oil SAE 90; Castrol Classic EP 90 GL-4 Gear Oil; Dynolite Mild EP 90; Miller's Oils EP Gear Oils GL-4 EP 80W90

## CHASSIS and WHEEL BEARING GREASE

- NLGI certified GC-LB multipurpose complex grease can be used for chassis lube and for wheel bearings. (GC = “G” wheel bearings; C “best”. LB = “L” chassis; “B” best.)  
Most chassis/wheel bearing formulas are NLGI #2 thickness, the consistency of peanut butter.
- The most common types of GC-LB grease are “Lithium Complex” and “Calcium Sulfonate”, based on the type of thickeners used. Both types of grease have similar characteristics. The worldwide demand for Lithium may force some manufacturers to produce only Calcium Sulfonate grease.
- Although Lithium Complex and Calcium Sulfonate greases are compatible, manufacturers recommend cleaning old grease from bearings and chassis points before changing brands and types. Not compatible with polyurea grease.
- **SUGGESTIONS:**
  - Most name-brand NLGI GC-LB grade #2 Lithium Complex and Calcium Sulfonate grease is OK. Lucas Red “N” Tacky is popular; it is changing from Lithium Complex to Calcium Sulfonate.

## **SHOCK FLUID** *(Short-term fix. If shocks are leaking, then send to Peter Caldwell at World Wide Auto Parts, to rebuild)*

- Do not overfill. Fill to bottom of filler plug.
- **SUGGESTIONS:**
  - AWE68 or AW68 Hydraulic Fluid (Recommended by Peter Caldwell, MG lever shock rebuilder)
  - Moss Hydraulic Shock Absorber Oil, #220-306
  - Motorcycle Fork Fluid 20w (e.g., Harley Davidson Fork Oil Type E, 20w)

## **BRAKE FLUID / CLUTCH FLUID**

- Most MGs use DOT 3 glycol-based brake fluid. Sometimes labeled “Synthetic.”

| <u>Brake Fluid</u> | <u>Low Water Absorption</u> | <u>High Boiling Point</u>     | <u>Base</u> |
|--------------------|-----------------------------|-------------------------------|-------------|
| DOT 5              | ☆☆☆☆☆ (best)                | ☆☆☆☆☆ (best)                  | Silicone    |
| DOT 3              | ☆☆☆☆                        | ☆☆ (worst)                    | Glycol      |
| DOT 4              | ☆☆☆                         | ☆☆☆                           | Glycol      |
| DOT 5.1            | ☆☆ (worst)                  | ☆☆☆☆☆☆ (best, equal to DOT 5) | Glycol      |

- DOT 5 doesn't damage paint. May be difficult to remove air when bleeding. Investigate before using DOT 5
- DOT 5 is not compatible with Glycol. Requires new master & wheel cylinders, rubber flex lines. Totally clean pipes.
- DOT 3, 4, and 5.1 absorb water. Throw away open bottles two or three months after opening.
- **SUGGESTIONS:**
  - Any major brand in smallest bottle needed. Same DOT as currently in the brake system.

## **ANTIFREEZE**

- Drain the radiator and block. May need to clear drain valves with a wire or compressed air. Fill with distilled water. Drive the car to operating temp for a while and drain again. Repeat until clear. Some distilled water will remain in the block and radiator. Add antifreeze equal to half of the total volume of the cooling system, then finish filling with distilled water to equal a 50:50 mix.
- **SUGGESTIONS:**
  - Prestone All Vehicles Antifreeze Concentrate

## **“SPECIAL ATTENTION”**

- **WIRE WHEEL SPLINES**
  - Remove old grease from wheel and hub splines with solvent and a brush.
  - Lightly lubricate the wheel splines with anti-seize, or chassis grease.
  - Lightly lube the hub splines.
  - Very lightly lubricate the tapered face of the hub & matching face of the wheel to prevent corrosion.
  - Lubricate the threads of the winged hub nut and the matching threads on the hub.
  - Lubricate the inside lip of the winged hub nut and the outer lip of the wheel.
  - Do not position a spoke over the brake adjuster hole in brake drum.
  - **SUGGESTIONS:**
    - Chassis grease; Anti-seize

- **DISTRIBUTOR** *(The most neglected lubrication on most MGs)*

- Remove distributor cap and wipe clean. Remove the rotor cap.
- Oil the distributor cam bearing. Put a few drops of SAE 20 oil into the top of the spindle that held the rotor to reoil the sintered bronze bearing. Do not remove the screw inside the spindle.
- Oil the mechanical advance. A few drops of oil through the opening in the breaker plate at the spindle.
- Oil the pivot for the points. A drop of oil on the pivot.
- Lube the distributor cam. A small amount of grease where it rubs the points rub block. Not required on MGB 45DE4 distributor with electronic ignition.
- **SUGGESTIONS:**
  - 3-in-One SAE 20 oil; engine oil; chassis grease; Lubricam SL-2 Silicone Distributor Cam Grease

- **DYNAMO / GENERATOR**

- MG-T - Grease on felt pad in brass housing at rear of dynamo.
- MGA, MGB - Engine oil into the lubrication hole rear bearing plate.
- **SUGGESTIONS:**
  - 3-in-One SAE 20 oil; engine oil; chassis grease

- **TACHOMETER GEARBOX ON GENERATOR** *(Operation Manuals and TD/TF WSM recommend different lubes)*

- TC Workshop Manual: Same gear oil as in diff. TD/TF Workshop Manual: Chassis grease.
- Operation Manual: Same gear oil as in diff.
  - Use grease gun filled with oil or remove fitting to fill with a syringe.
- Do not pump too much grease or oil. The case may swell causing the joint between the two halves to leak.
- **SUGGESTIONS:** TD/TF
  - NLGI GC-LB grade 2 grease - Lucas Red "N" Tacky
  - Sta-Lube® API/GL-4 Multi-Purpose Gear Oil SAE 90; Castrol Classic EP 90 GL-4 Gear Oil; Dynolite Mild EP 90; Miller's Oils EP Gear Oils GL-4 EP 80W90. TC: EP 140 GL-4 gear oil.

- **CARBURETORS & DAMPERS**

- Oil the throttle shafts at the carb bodies with engine oil to reduce wear.
- MG-T and MGA Workshop Manuals specify SAE 20 engine oil in the dampers. MGB specifies engine oil. John Twist recommends SAE 90 GL-4 gear oil to give richer mixture on acceleration.
- There are many opinions about damper oils.
- Do not use GL-5 gear oil.
- **SUGGESTIONS:**
  - 3-in-One 20W oil; Valvoline VR1 20W-50
  - Sta-Lube® API/GL-4 Multi-Purpose Gear Oil SAE 90; Castrol Classic EP 90 GL-4 Gear Oil; Dynolite Mild EP 90; Miller's Oils EP Gear Oils GL-4 EP 80W90

- **PEDAL SHAFT – LHD TD/TF** *(This is not on the lube chart)*

- Chassis grease into fitting on chassis under left front wing.
- RHD TDs and TFs do not have a grease fitting for the pedal shaft.
- **SUGGESTIONS:**
  - NLGI GC-LB grade 2 grease - Lucas Red “N” Tacky

- **OTHER PARTS TO LUBE**

- Lubricate just about any non-electric metal-to-metal that moves, e.g., door hinges, latches, bonnet hinges, linkages
- **SUGGESTIONS:**
  - 3-in-One SAE 20 oil; 20W-50 engine oil; chassis grease; SIL Glyde Silicone Lubricating Compound (rubber/plastic parts)

- **RUBBER PARTS**

- Replacement rubber may fail without visible signs of trouble.
- Replace every four to six years:
  - Radiator hoses
  - Flexible brake hoses
  - Vacuum hoses
  - Fan belt, or carry a spare
- Replace seven years from date of manufacture
  - Tires
- Urethane front suspension trunnion seals may be available
- Polyurethane suspension bushes are available
- Replace steering rack boots at first sign of cracks or leaks. Silicone boots may be available

- **CAPACITIES**

- Workshop Manuals and Operation Manuals / Driver's Handbooks list the capacities of engine sump, cooling system, gearbox, and rear axle in Imperial pints which are about 20% larger than U.S. pints.
- e.g. Engine sump capacity in some MGBs is 7½ Imperial pints, which is 9 U.S. pints (4½ U.S. quarts)
- Download Workshop and Operation Manuals here for free:

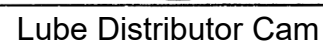
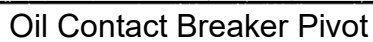
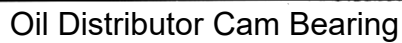
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## SOURCES for SUGGESTED LUBRICANTS

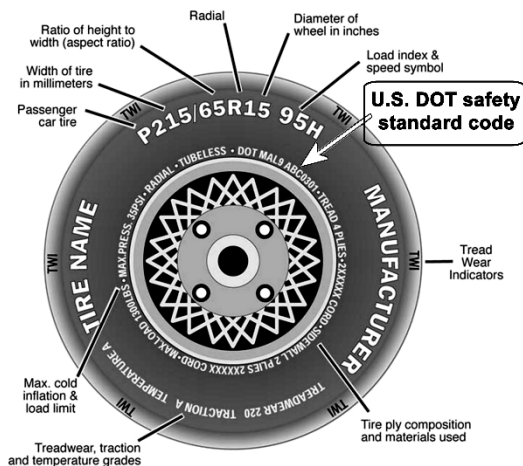
See Text for Applications

| LUBRICANT                                                                   | SOURCE (partial list, Google for more sources. Prices vary)               |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 3-in-One SAE 20 oil, <i>UPC 079567100454</i>                                | Hardware Store                                                            |
| Anti-seize, e.g. <i>Permatex® Anti-Seize Lubricant</i> , 4 Oz #80071        | Auto Parts Store                                                          |
| AWE68 or AW68 Hydraulic Fluid, e.g. <i>FRAM AW68 Hydraulic Fluid</i>        | Auto Parts Store                                                          |
| Castrol <u>Classic</u> EP 90 Gear Oil GL-4                                  | Moss Motors, classiccoilsusa.com, classicindustries.com, engelimports.com |
| Castrol <u>Classic</u> EP140 Gear Oil GL-4                                  | Moss Motors, classiccoilsusa.com, classicindustries.com, engelimports.com |
| DOT 3, DOT 4, DOT 5.1, DOT 5 Brake Fluid, e.g. <i>Preston and Valvoline</i> | Auto Parts Store                                                          |
| Dynolite Mild EP 90 GL-4                                                    | Moss Motors                                                               |
| GFE121 Oil Filter Element                                                   | Confirm with manuals                                                      |
| Harley Davidson Fork Oil Type E, 20w                                        | Harley Davidson                                                           |
| Lubricam SL-2 Silicone Distributor Cam Grease                               | Auto Parts Store (some), Summit Racing                                    |
| Lucas Red "N" Tacky NLGI GC-LB grade #2                                     | Auto Parts Store                                                          |
| Lucas SAE 75W-90 Synthetic Gear Oil <u>GL-5</u>                             | Auto Parts Store (some), Summit Racing                                    |
| Miller's Oils EP Gear Oil GL-4 EP 140                                       | performanceracingoils.com, Moss Motors                                    |
| Miller's Oils EP Gear Oils GL-4 EP 80W90                                    | performanceracingoils.com                                                 |
| Millers Classic Differential Oil EP 85W140 <u>GL-5</u>                      | performanceracingoils.com                                                 |
| Millers Classic Differential Oil EP 90 <u>GL-5</u>                          | performanceracingoils.com                                                 |
| Moss Hydraulic Shock Absorber Oil, #220-306                                 | Moss Motors                                                               |
| NAPA Gold 1300 oil filter element                                           | NAPA (special order)                                                      |
| Penrite Semi Fluid & Steering Box Lube NLGL 00                              | Moss Motors, engelimports.com                                             |
| Prestone All Vehicles Antifreeze Concentrate                                | Auto Parts Store                                                          |
| Red Line 75W90 <u>GL-5</u> Gear Oil                                         | Auto Parts Store (special order)                                          |
| Red Line MT-90, 75W90 GL-4 Gear Oil                                         | Auto Parts Store (special order)                                          |
| SIL Glyde Silicone Lubricating Compound                                     | Auto Parts Store (special order?)                                         |
| Sta-Lube API/GL-4 Multi-Purpose Gear Oil SAE 140                            | Auto Parts Store (special order?), NAPA (order?)                          |
| Sta-Lube API/GL-4 Multi-Purpose Gear Oil SAE 90                             | Auto Parts Store (special order?), NAPA (order?)                          |
| Valvoline VR1 20W-50 conventional mineral oil                               | Auto Parts Store                                                          |
| Wix 51300 oil filter element                                                | Auto Parts Store (special order)                                          |

## Rev 9-Apr-2026



## How to Read a Tire Sidewall (P-Metric)



DOT CODE BEFORE 2000 WEEK YEAR  
DOT MA L9 ABCD 036

**DOT CODE BEFORE 2000**

WEEK YEAR

MFR. &  
PLANT CODE  
NUMBER

TIRE SIZE  
CODE  
NUMBER

GROUP OF OP  
SYMBOLS WITH  
THE MFR.

DATE OF MFR.  
LE. 3RD WEEK  
OF 1996

**DOT CODE AFTER 2000**

WEEK YEAR

**DOT MA L9 ABCD 0301**

MFR. &  
PLANT CODE  
NUMBER

TIRE SIZE  
CODE  
NUMBER

GROUP OF OPT.  
SYMBOLS WITH  
THE MFR.

DATE OF MFR.  
LE. 3RD WEEK  
OF 2001

# TC LUBE & MAINTENANCE SCHEDULE

Print blank schedule each time you service.

DATE: \_\_\_\_\_

Record date, ☒ completed task, file all in your glovebox.

| <input checked="" type="checkbox"/> | TASK - TC                                                                                                        | MODERN<br>LUBRICANT<br><i>See text for alternatives<br/>(Lonnie Cook)</i> | FREQUENCY<br><i>Driven less than<br/>3,000 mi/yr<br/>(Lonnie Cook)</i> | FREQUENCY<br><i>Not Applicable<br/>(Operation Man)<br/>(Workshop Man)</i> |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------|
|                                     | Visual & auditory check top & bottom. Tighten, repair, replace.                                                  |                                                                           | Every drive                                                            |                                                                           |
|                                     | Check engine oil level & fill to "FULL"                                                                          | Valvoline VR1 20W-50                                                      | Every drive                                                            | daily                                                                     |
|                                     | Check coolant level & fill                                                                                       | Distilled H <sub>2</sub> O                                                | Every drive                                                            | Every drive                                                               |
|                                     | Check all tire pressures                                                                                         | approx. 24F/26R                                                           | Every drive                                                            |                                                                           |
|                                     | Lube drag link. (2 nipples)                                                                                      | Lucas Red "N" Tacky                                                       | 6 months                                                               | 500 miles                                                                 |
|                                     | Lube front spring pin. (2 nipples)                                                                               | Lucas Red "N" Tacky                                                       | 6 months                                                               | 500 miles                                                                 |
|                                     | Lube king pin. (4 nipples)                                                                                       | Lucas Red "N" Tacky                                                       | 6 months                                                               | 500 miles                                                                 |
|                                     | Lube track rod. (2 nipples)                                                                                      | Lucas Red "N" Tacky                                                       | 6 months                                                               | 500 miles                                                                 |
|                                     | Lube drive shaft - front & rear U-joints plus sliding yoke.<br>(3 nipples), 3-4 pumps                            | Lucas Red "N" Tacky                                                       | 6 months                                                               | 500 yoke<br>10000 U-joints                                                |
|                                     | Cables & control points remove and lube                                                                          | Lucas Red "N" Tacky                                                       | 6 months                                                               |                                                                           |
|                                     | Lube fan bearings. (1 nipple), 2 pumps. Replacements: no nipple.                                                 | Lucas Red "N" Tacky                                                       | 6 months                                                               | 1000 miles                                                                |
|                                     | Oil carb linkage                                                                                                 | 3-in-One SAE 20, or<br>Valvoline VR1 20W-50                               | 6 months                                                               |                                                                           |
|                                     | Oil carb throttle shafts at carb body                                                                            | 3-in-One SAE 20, or<br>Valvoline VR1 20W-50                               | 6 months                                                               |                                                                           |
|                                     | Lubricate just about any non-electric metal-to-metal that moves,<br>e.g., hinges, latches, catches, seat slides. | 3-in-One SAE 20<br>Valvoline VR1 20W-50<br>Lucas Red "N" Tacky            | 6 months                                                               | 1000 miles                                                                |
|                                     | Check carb dash pots & fill - Some early TCs may not have                                                        | 3-in-One SAE 20                                                           | 6 months                                                               | 1000 miles                                                                |
|                                     | Check rear axle hypoid gear oil & fill through the filler plug until it<br>overflows the oil level plug.         | Sta-Lube GL-4 SAE 140                                                     | 6 months                                                               | 2000 miles                                                                |
|                                     | Check gearbox gear oil & fill to "NORMAL" or top line                                                            | Sta-Lube GL-4 SAE 140                                                     | 6 months                                                               | 2000 miles                                                                |
|                                     | Check steering box & fill. (1 nipple)                                                                            | Sta-Lube GL-4 SAE 140                                                     | 6 months                                                               | 2000 miles                                                                |
|                                     | Check & fill brake fluid to 1" below cap. Check flexible brake<br>hoses.                                         | DOT3, DOT4, or DOT5<br>(do not mix)                                       | 6 months                                                               | every month                                                               |
|                                     | Check battery & fill just above separators. Clean terminals.                                                     | Distilled H <sub>2</sub> O                                                | 6 months                                                               | every month                                                               |
|                                     | Check condition of fan belt, hoses, and clamps.                                                                  |                                                                           | 6 months                                                               |                                                                           |
|                                     | Check & tighten all fasteners + suspension & wheels                                                              |                                                                           | 6 months                                                               |                                                                           |
|                                     | Drain (warm) & fill engine oil to "FULL"                                                                         | Valvoline VR1 20W-50                                                      | 6 mo (12 ?)                                                            | 3000 miles                                                                |
|                                     | Anneal or replace sump drain plug copper washer                                                                  | Moss #324-800                                                             | 6 mo (12 ?)                                                            |                                                                           |
|                                     | Reproduction oil filter canister, internal hidden spin-on filter<br>element.                                     | FTFU SKU EE572                                                            | One time                                                               |                                                                           |
|                                     | Replace oil filter element in FTFU oil filter canister                                                           | FTFU SKU EE576<br>or STP 3614                                             | 6 mo (12 ?)                                                            | 6000 miles                                                                |
|                                     | Oil distributor cam bearing                                                                                      | 3-in-One SAE 20                                                           | 12 months                                                              |                                                                           |
|                                     | Oil distributor advance                                                                                          | 3-in-One SAE 20                                                           | 12 months                                                              |                                                                           |
|                                     | Oil contact breaker pivot                                                                                        | 3-in-One SAE 20                                                           | 12 months                                                              |                                                                           |
|                                     | Lube distributor cam                                                                                             | Lucas Red "N" Tacky, or<br>Lubricam SL-2                                  | 12 months                                                              |                                                                           |
|                                     | Lube generator felt wick                                                                                         | Lucas Red "N" Tacky                                                       | 12 months                                                              |                                                                           |
|                                     | Clean & oil air filter elements                                                                                  | Valvoline VR1 20W-50                                                      | 12 months                                                              |                                                                           |
|                                     | Clean carb & fuel pump filters.                                                                                  |                                                                           | 12 months                                                              |                                                                           |
|                                     | Lube & adjust clutch and brake linkage.                                                                          | Lucas Red "N" Tacky                                                       | 12 months                                                              |                                                                           |

# TC LUBE & MAINTENANCE SCHEDULE

Print blank schedule each time you service.

DATE: \_\_\_\_\_

Record date, ☒ completed task, file all in your glovebox.

| <input checked="" type="checkbox"/> | TASK - TC                                                                                                                                                                            | MODERN<br>LUBRICANT<br><i>See text for alternatives<br/>(Lonnie Cook)</i> | FREQUENCY<br><i>Driven less than<br/>3,000 mi/yr<br/>(Lonnie Cook)</i> | FREQUENCY<br><i>Not Applicable<br/>(Operation Man)<br/>(Workshop Man)</i> |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------|
|                                     | Lube brake cables (2 nipples), 1 pump                                                                                                                                                | Lucas Red "N" Tacky                                                       | 12 months                                                              | 3000 miles                                                                |
|                                     | Remove wire wheels. Lightly lube wheels & hubs                                                                                                                                       | Lucas Red "N" Tacky, & anti seize                                         | 12 months                                                              |                                                                           |
|                                     | Check age & condition of tires. Record production date each tire. Replace 7 yrs after production.                                                                                    |                                                                           | 12 months                                                              |                                                                           |
|                                     | Flush brake lines ( <i>Glycol brake fluid</i> )                                                                                                                                      | DOT3 or DOT4 (do not mix with DOT5)                                       | 2 years                                                                |                                                                           |
|                                     | Drain & fill gearbox to top line                                                                                                                                                     | Sta-Lube GL-4 SAE 140                                                     | 2 years                                                                | 6000 miles                                                                |
|                                     | Anneal or replace filler & drain plug copper washer                                                                                                                                  | Filler and drain plug washer Moss #324-810                                | 2 years                                                                |                                                                           |
|                                     | Drain the rear axle through the drain plug. Fill through filler plug until it overflows the oil level plug. Make sure the filler plug can be removed before removing the drain plug. | Sta-Lube GL-4 SAE 140                                                     | 2 years                                                                | 6000 miles                                                                |
|                                     | Fill rev. counter reduction gear box                                                                                                                                                 | Sta-Lube GL-4 SAE 140                                                     | 2 years                                                                | 12000 miles                                                               |
|                                     | Lube rear hubs (2 nipples inside hub)                                                                                                                                                | Lucas Red "N" Tacky                                                       | 2 years                                                                | 6000 miles                                                                |
|                                     | Lube front hubs. Remove knockoff, add grease to hub cap.                                                                                                                             | Lucas Red "N" Tacky                                                       | 2 years                                                                | 6000 miles                                                                |
|                                     | Check and fill shock absorbers                                                                                                                                                       | AWE68 or AW68 Hydraulic Fluid                                             | 2 years                                                                | 12000 miles                                                               |
|                                     | Flush brake lines ( <i>Silicone brake fluid</i> )                                                                                                                                    | DOT5 (do not mix with DOT3 or DOT4)                                       | 4 years                                                                |                                                                           |
|                                     | Drain & flush cooling system.                                                                                                                                                        | Prestone All Vehicles + Distilled H <sub>2</sub> O                        | 4 years                                                                |                                                                           |
|                                     | Recommend: Replace all rubber belts, hoses, flexible brake hoses.                                                                                                                    |                                                                           | 4-6 years                                                              |                                                                           |



# TD/TF LUBE & MAINTENANCE SCHEDULE

Print blank schedule each time you service.

DATE: \_\_\_\_\_

Record date, ☒ completed task, file all in your glovebox.

| <input checked="" type="checkbox"/> | TASK - TD/TF                                                                                                  | MODERN LUBRICANT<br><i>See text for alternatives</i><br><br>(Lonnie Cook) | FREQUENCY<br><i>Driven less than</i><br>3,000 mi/yr<br>(Lonnie Cook) | FREQUENCY<br><i>Not Applicable</i><br><br>(Operation Man)<br>(Workshop Man) |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                     | Visual & auditory check top & bottom. Tighten, repair, replace.                                               |                                                                           | Every drive                                                          |                                                                             |
|                                     | Check engine oil level & fill to "FULL"                                                                       | Valvoline VR1 20W-50                                                      | Every drive                                                          | 250 miles                                                                   |
|                                     | Check coolant level & fill                                                                                    | Distilled H <sub>2</sub> O<br>4-lb cap Moss #202-020                      | Every drive                                                          | 500 miles                                                                   |
|                                     | Check all tire pressures,                                                                                     | (+/- 4psi): Bias 22F/24R, Radial 26F/28R                                  | Every drive                                                          | 500 miles                                                                   |
|                                     | Lube Pedal Shaft. (1 nipple), 3-4 pumps                                                                       | Lucas Red "N" Tacky                                                       | 6 months                                                             | 500 miles                                                                   |
|                                     | Lube tie rod ends & swivel pins. (6 nipples), 3-4 pumps                                                       | Lucas Red "N" Tacky                                                       | 6 months                                                             | 500 miles                                                                   |
|                                     | Lube drive shaft - front & rear U-joints plus sliding yoke. (3 nipples), 3-4 pumps                            | Lucas Red "N" Tacky                                                       | 6 months                                                             | 1,000 miles                                                                 |
|                                     | Lube water pump. (1 nipple), 2 pumps. Some replacements may not have nipple.                                  | Lucas Red "N" Tacky                                                       | 6 months                                                             | 1,000 miles                                                                 |
|                                     | Oil carb linkage                                                                                              | 3-in-One SAE 20, or engine oil                                            | 6 months                                                             | 1,000 miles                                                                 |
|                                     | Oil carb throttle shafts at carb body                                                                         | 3-in-One SAE 20, or engine oil                                            | 6 months                                                             | 1,000 miles                                                                 |
|                                     | Lubricate just about any non-electric metal-to-metal that moves, e.g., hinges, latches, catches, seat slides. | 3-in-One SAE 20<br>Valvoline VR1 20W-50<br>Lucas Red "N" Tacky            | 6 months                                                             | 1,000 miles                                                                 |
|                                     | Check carb dash pots & fill<br>TF3494 and earlier may not have dampers                                        | 3-in-One SAE 20 or Sta-Lube GL-4 SAE 90                                   | 6 months                                                             | 1,000 miles                                                                 |
|                                     | Check rear axle hypoid gear oil & fill to level of filler plug                                                | Sta-Lube GL-4 SAE 90                                                      | 6 months                                                             | 1,000 miles                                                                 |
|                                     | Check gearbox gear oil & fill to "HIGH"                                                                       | Red Line MT-90                                                            | 6 months                                                             | 1,000 miles                                                                 |
|                                     | Check steering rack. (1 nipple), 10 pumps gear oil. Replacement racks may not need lubrication.               | Sta-Lube GL-4 SAE 90                                                      | 6 months                                                             | 3,000 miles                                                                 |
|                                     | Check & fill brake fluid to 1/2" below bottom of filler neck. Check flexible brake hoses.                     | DOT3, DOT4, or DOT5 (do not mix)<br>Filler plug washer Moss #180-220      | 6 months                                                             | 1,000 miles                                                                 |
|                                     | Check battery & fill just above separators. Clean terminals.                                                  | Distilled H <sub>2</sub> O                                                | 6 months                                                             | 1,000 miles                                                                 |
|                                     | Check condition of fan belt, hoses, & clamps.                                                                 | Belt: 1/2" deflection @ longest run between pulleys                       | 6 months                                                             | 3,000 miles                                                                 |
|                                     | Check & tighten all fasteners + suspension & wheels                                                           |                                                                           | 6 months                                                             | 6,000 miles                                                                 |
|                                     | Drain (warm) & fill engine oil to "FULL"                                                                      | Valvoline VR1 20W-50                                                      | 6 mo (12 ?)                                                          | 3,000 miles                                                                 |
|                                     | Anneal or replace sump drain plug copper washer                                                               | Moss #324-800                                                             | 6 mo (12 ?)                                                          |                                                                             |
|                                     | Reproduction oil filter canister, internal hidden spin-on filter element. Thru TD engine #14223.              | FTFU SKU EE572                                                            | One time                                                             |                                                                             |
|                                     | Replace oil filter element in FTFU oil filter canister. Thru TD engine #14223.                                | FTFU SKU EE576<br>or STP 3614                                             | 6 mo (12 ?)                                                          | 6000 miles                                                                  |
|                                     | Replace oil filter element starting XPAG #14224.                                                              | Wix 51300                                                                 | 6 mo (12 ?)                                                          | 3,000 miles                                                                 |
|                                     | Oil distributor cam bearing                                                                                   | 3-in-One SAE 20                                                           | 12 months                                                            | 3,000 miles                                                                 |
|                                     | Oil distributor advance                                                                                       | 3-in-One SAE 20                                                           | 12 months                                                            | 3,000 miles                                                                 |
|                                     | Oil contact breaker pivot                                                                                     | 3-in-One SAE 20                                                           | 12 months                                                            | 3,000 miles                                                                 |
|                                     | Lube distributor cam                                                                                          | Lucas Red "N" Tacky, or Lubricam SL-2                                     | 12 months                                                            | 3,000 miles                                                                 |
|                                     | Lube generator felt pad                                                                                       | Lucas Red "N" Tacky                                                       | 12 months                                                            | 3,000 miles                                                                 |
|                                     | Lube tachometer gearbox                                                                                       | Lucas R "N" T, or Sta-Lube GL-4 SAE 90                                    | 12 months                                                            | 6,000 miles                                                                 |
|                                     | Clean & oil air filter elements                                                                               | Valvoline VR1 20W-50                                                      | 12 months                                                            | 3,000 miles                                                                 |

# TD/TF LUBE & MAINTENANCE SCHEDULE

Print blank schedule each time you service.

DATE: \_\_\_\_\_

Record date, ☒ completed task, file all in your glovebox.

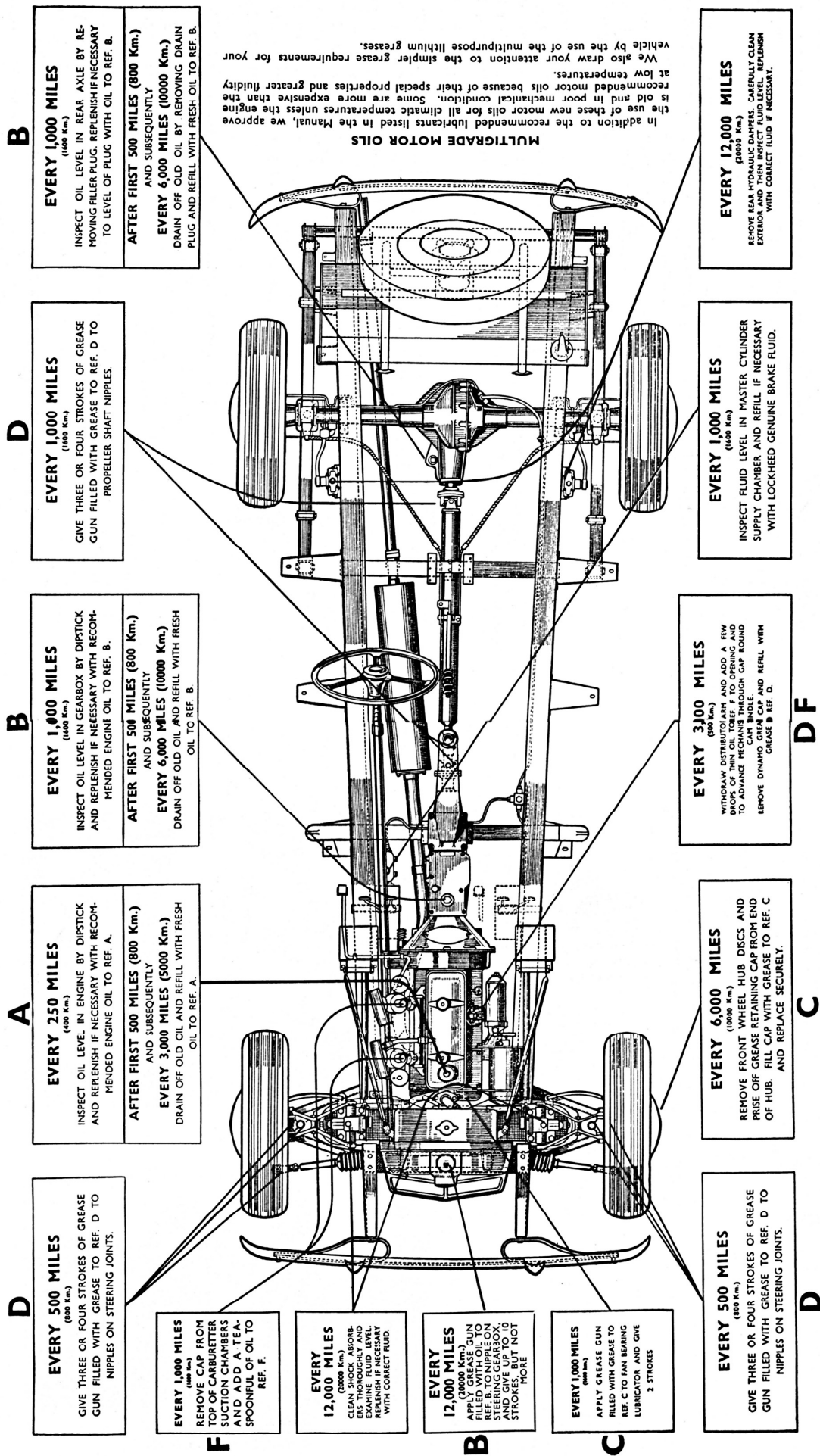
| <input checked="" type="checkbox"/> | TASK - TD/TF                                                                                                                             | MODERN LUBRICANT<br><i>See text for alternatives</i><br><br>(Lonnie Cook) | FREQUENCY<br><i>Driven less than</i><br><b>3,000 mi/yr</b><br>(Lonnie Cook) | FREQUENCY<br><i>Not Applicable</i><br><br>(Operation Man)<br>(Workshop Man) |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                     | Clean carb and fuel pump filters.                                                                                                        |                                                                           | 12 months                                                                   | 3,000 miles                                                                 |
|                                     | Lube and adjust clutch and brake linkage.                                                                                                | Lucas Red "N" Tacky                                                       | 12 months                                                                   | 12,000 miles                                                                |
|                                     | Lube front wheel hubs early TD. 1 pump (2 nipples)                                                                                       | Lucas Red "N" Tacky                                                       | 12 months                                                                   | 6,000 miles                                                                 |
|                                     | Remove wire wheels. Lightly lube wheels & hubs                                                                                           | Lucas Red "N" Tacky, & anti seize                                         | 12 months                                                                   |                                                                             |
|                                     | Check front & rear shocks and fill to 1/2" below top                                                                                     | AWE68 or AW68 Hydraulic Fluid                                             | 12 months                                                                   | 12,000 miles                                                                |
|                                     | Check age & condition of tires. Record production date each tire. Replace 7 yrs after production.                                        |                                                                           | 12 months                                                                   |                                                                             |
|                                     | Flush brake lines ( <i>Glycol brake fluid</i> )                                                                                          | DOT3 or DOT4 (do not mix with DOT5)                                       | 2 years                                                                     | as needed                                                                   |
|                                     | Drain and fill gearbox gear oil to "HIGH"                                                                                                | Red Line MT-90                                                            | 2 years                                                                     | 6,000 miles                                                                 |
|                                     | Anneal or replace gearbox drain plug copper washer                                                                                       | Moss #324-810 filler & drain plug washer                                  | 2 years                                                                     |                                                                             |
|                                     | Drain and fill diff gear oil to filler plug. Make sure filler plug can be removed before removing the drain plug.                        | Sta-Lube GL-4 SAE 90                                                      | 2 years                                                                     | 6,000 miles                                                                 |
|                                     | Pressed wheels: Remove front wheel hub discs & grease caps. Add grease to grease cap.<br>Wire wheels: Remove knockoff. Add grease to hub | Lucas Red "N" Tacky                                                       | 2 years                                                                     | 6,000 miles                                                                 |
|                                     | Flush brake lines ( <i>Silicone brake fluid</i> )                                                                                        | DOT5 (do not mix with DOT3 or DOT4)                                       | 4 years                                                                     | as needed                                                                   |
|                                     | Drain & flush cooling system.                                                                                                            | Prestone All Vehicles + Distilled H <sub>2</sub> O                        | 4 years                                                                     | 12,000 miles                                                                |
|                                     | Flush steering rack with new hypoid gear oil.                                                                                            | Sta-Lube GL-4 SAE 90                                                      | 4 years                                                                     |                                                                             |
|                                     | Recommend: Replace all rubber belts, hoses, flexible brake hoses.                                                                        |                                                                           | 4-6 years                                                                   |                                                                             |

**A**



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M.G. Midget (Series "TD"). Issue 4 (H

# THE M.G. MIDGET (Series "TF") LUBRICATION CHART



**EVERY 1,000 MILES (1600 Km.),** USE OILCAN FILLED WITH OIL TO REF. F ON ALL CONTROL JOINTS, DOOR LOCKS, HINGES, ETC.  
**EVERY 3,000 MILES (5000 Km.),** APPLY GREASE GUN FILLED WITH GREASE TO REF. D TO REVOLUTION INDICATOR GEARBOX AND GIVE TWO STROKES. FIT NEW EXTERNAL OIL FILTER ELEMENT.

# MGA LUBE & MAINTENANCE SCHEDULE

Print blank schedule each time you service

Record date, ☒ completed task, file all in your glovebox

DATE: \_\_\_\_\_

| <input checked="" type="checkbox"/> | TASK - MGA                                                                                                                  | MODERN LUBRICANT<br><i>See text for alternatives</i><br><br>(Lonnie Cook)           | FREQUENCY<br><i>Driven less than</i><br>3,000 mi/yr<br>(Lonnie Cook) | FREQUENCY<br>Not Applicable<br><br>(Operation Man)<br>(Workshop Man) |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|
|                                     | Visual & auditory check top & bottom. Tighten, repair, replace.                                                             |                                                                                     | Every drive                                                          |                                                                      |
|                                     | Check engine oil level & fill to "MAX" or "Full" (1500 engine #28979 dipstick raised minimum level by a pint. Same sump)    | Valvoline VR1 20W-50                                                                | Every drive                                                          | Daily                                                                |
|                                     | Check coolant level & fill                                                                                                  | Distilled H <sub>2</sub> O<br>4-lb cap Moss #202-020<br>7-lb cap 1600 Moss #583-004 | Every drive                                                          | Daily                                                                |
|                                     | Check all tire pressures                                                                                                    | approx. 18F/ 20R bias ply                                                           | Every drive                                                          | Weekly                                                               |
|                                     | Lube tie-rods. (1 nipple), 3-4 pumps                                                                                        | Lucas Red "N" Tacky                                                                 | 6 months                                                             | 1000 miles                                                           |
|                                     | Lube top and bottom swivel pins. (4 nipples), 3-4 pumps                                                                     | Lucas Red "N" Tacky                                                                 | 6 months                                                             | 1000 miles                                                           |
|                                     | Lube drive shaft - front & rear U-joints plus sliding yoke. (3 nipples), 3-4 pumps                                          | Lucas Red "N" Tacky                                                                 | 6 months                                                             | 1000 miles                                                           |
|                                     | Lube hand brake cable. (1 nipple), 3-4 pumps                                                                                | Lucas Red "N" Tacky                                                                 | 6 months                                                             | 1000 miles                                                           |
|                                     | Oil carb linkage                                                                                                            | 3-in-One SAE 20<br>or Valvoline VR1 20W-50                                          | 6 months                                                             |                                                                      |
|                                     | Oil carb throttle shafts at carb body                                                                                       | 3-in-One SAE 20<br>or Valvoline VR1 20W-50                                          | 6 months                                                             |                                                                      |
|                                     | Lubricate just about any non-electric metal-to-metal that moves, e.g., hinges, latches, catches, seat slides.               | 3-in-One SAE 20<br>Valvoline VR1 20W-50<br>Lucas Red "N" Tacky                      | 6 months                                                             | 1000 miles                                                           |
|                                     | Check carb dash pots & fill                                                                                                 | 3-in-One SAE 20<br>or Valvoline VR1 20W-50                                          | 6 months                                                             | 1000 miles                                                           |
|                                     | Check rear axle hypoid gear oil & fill to level of filler plug                                                              | Sta-Lube GL-4 SAE 90                                                                | 6 months                                                             | 1000 miles                                                           |
|                                     | Check gearbox gear oil & and fill to "HIGH"                                                                                 | Valvoline VR1 20W-50                                                                | 6 months                                                             | 1000 miles                                                           |
|                                     | Check brake & clutch. Fill to 1/4" below the bottom filler neck.<br>Twin Cam: Separate master cylinders for brake & clutch. | DOT3, DOT4, or DOT5 (do not mix)<br>Filler plug washer Moss #180-451                | 6 months                                                             | 1000 miles                                                           |
|                                     | Check battery & fill just above separators. Clean terminals.                                                                | Distilled H <sub>2</sub> O                                                          | 6 months                                                             | 1000 miles                                                           |
|                                     | Check condition of fan belt, hoses, & clamps.                                                                               |                                                                                     | 6 months                                                             | 3000 miles                                                           |
|                                     | Examine all shocks for leaks                                                                                                | AWE68 or AW68 Hydraulic Fluid                                                       | 6 months                                                             | 1000 miles                                                           |
|                                     | Inspect, repair/replace flexible brake hoses and pipes                                                                      |                                                                                     | 6 months                                                             | 1000 miles                                                           |
|                                     | Check & tighten all fasteners + suspension & wheels                                                                         |                                                                                     | 6 months                                                             | 6000 miles                                                           |
|                                     | Drain (warm) & fill engine oil to "MAX" or "Full"                                                                           | Valvoline VR1 20W-50                                                                | 6 mo (12 ?)                                                          | 3000 miles                                                           |
|                                     | Anneal or replace oil sump drain plug copper washer                                                                         | Moss #324-626                                                                       | 6 mo (12 ?)                                                          |                                                                      |
|                                     | Replace oil filter element & wash bowl in fuel.                                                                             | Wix 51300                                                                           | 6 mo (12 ?)                                                          | 6000 miles                                                           |
|                                     | Oil distributor cam bearing                                                                                                 | 3-in-One SAE 20                                                                     | 12 months                                                            | 3000 mi = 1500 & Twin Cam<br>6000 mi = All others                    |
|                                     | Oil automatic timing control                                                                                                | 3-in-One SAE 20<br>or Valvoline VR1 20W-50                                          | 12 months                                                            | 3000 mi = 1500 & Twin Cam<br>6000 mi = All others                    |
|                                     | Oil contact breaker pivot                                                                                                   | 3-in-One SAE 20<br>or Valvoline VR1 20W-50                                          | 12 months                                                            | 3000 mi = 1500 & Twin Cam<br>6000 mi = All others                    |

# MGA LUBE & MAINTENANCE SCHEDULE

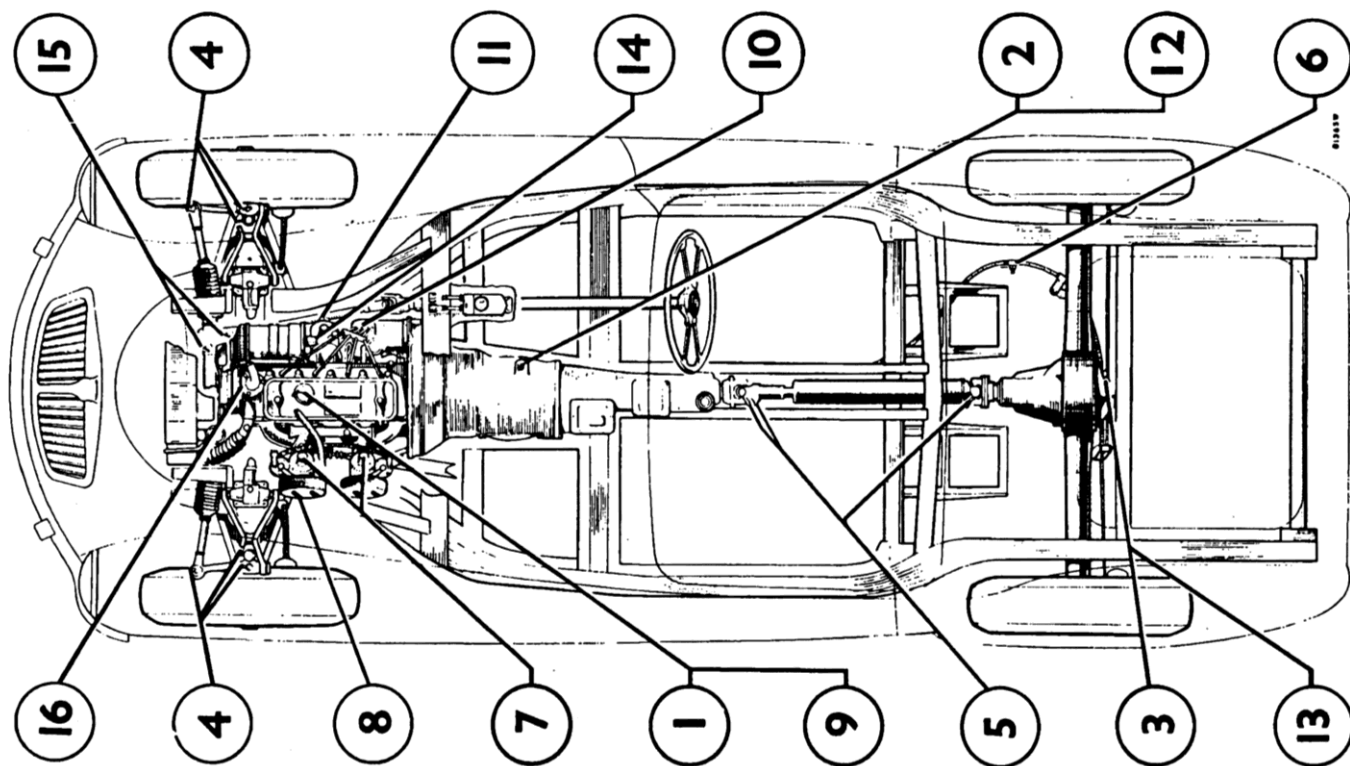
Print blank schedule each time you service

Record date, ☒ completed task, file all in your glovebox

DATE: \_\_\_\_\_

| <input checked="" type="checkbox"/> | TASK - MGA                                                                                                                                                   | MODERN LUBRICANT<br><i>See text for alternatives</i><br><br>(Lonnie Cook) | FREQUENCY<br><i>Driven less than</i><br><b>3,000 mi/yr</b><br>(Lonnie Cook) | FREQUENCY<br><i>Not Applicable</i><br><br>(Operation Man)<br>(Workshop Man) |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                     | Lube distributor cam                                                                                                                                         | Lucas Red "N" Tacky                                                       | 12 months                                                                   | 3000 mi = 1500 & Twin Cam<br>6000 mi = All others                           |
|                                     | Lube water pump sparingly. Remove plug. (1 nipple) 1 pump. Replacements may not have nipple.                                                                 | WSM: Lucas Red "N" Tacky<br>Op Man: S.A.E. 140 oil.                       | 12 months                                                                   | 6000 miles                                                                  |
|                                     | Clean & oil air filter elements                                                                                                                              | Valvoline VR1 20W-50                                                      | 12 months                                                                   | 3000 miles                                                                  |
|                                     | Lube the steering rack nipple with hypoid oil in grease gun.<br>1500 = max 15 strokes<br>All other = max 10 strokes.<br>Pinion nipple = 2 strokes (Twin Cam) | Sta-Lube GL-4 SAE 90                                                      | 12 months                                                                   | 12000 miles<br>WSM: 3000mi                                                  |
|                                     | Remove wire wheels. Lightly lube wheels & hubs.                                                                                                              | Lucas Red "N" Tacky, & anti seize                                         | 12 months                                                                   |                                                                             |
|                                     | Adjust dynamo drive belt tension.<br>Avoid overtightening.                                                                                                   | Belt: 1" side to side deflection<br>@ longest run between pulleys         | 12 months                                                                   | 3000 miles                                                                  |
|                                     | Check age & condition of tires. Record production date each tire. Replace 7 yrs after production.                                                            |                                                                           | 12 months                                                                   |                                                                             |
|                                     | Flush brake lines ( <i>Glycol brake fluid</i> )                                                                                                              | DOT3 or DOT4<br>(do not mix with DOT5)                                    | 2 years                                                                     |                                                                             |
|                                     | Drain & fill gearbox to "HIGH"                                                                                                                               | Valvoline VR1 20W-50                                                      | 2 years                                                                     | 6000 miles                                                                  |
|                                     | Drain & fill rear axle to level of filler plug. Make sure filler plug can be removed before removing drain plug                                              | Sta-Lube GL-4 SAE 90                                                      | 2 years                                                                     | 6000 miles                                                                  |
|                                     | Pressed wheels: Remove front wheel hub discs & grease caps. Add grease to grease cap.<br>Wire wheels: Remove knockoff. Add grease to hub.                    | Lucas Red "N" Tacky                                                       | 2 years                                                                     | 6000 miles                                                                  |
|                                     | Clean fuel filters in carburettors & pump.                                                                                                                   |                                                                           | 2 years                                                                     | 6000 miles                                                                  |
|                                     | Check steering & suspension for wear.                                                                                                                        |                                                                           | 2 years                                                                     | 12000 miles                                                                 |
|                                     | Check & tighten door hinges & striker plate.                                                                                                                 |                                                                           | 2 years                                                                     | 6000 miles                                                                  |
|                                     | Flush brake lines ( <i>Silicone brake fluid</i> )                                                                                                            | DOT5 (do not mix with DOT3 or DOT4)                                       | 4 years                                                                     |                                                                             |
|                                     | Drain & flush cooling system.                                                                                                                                | Prestone All Vehicles+Distilled H <sub>2</sub> O                          | 4 years                                                                     | 12000 miles                                                                 |
|                                     | Lube the steering pinion nipple with hypoid oil in grease gun<br>1500 = max 5 strokes<br>All other = max 2 strokes                                           | Sta-Lube GL-4 SAE 90                                                      | 4 years                                                                     | 12000 miles                                                                 |
|                                     | Two drops of oil into dynamo lubrication hole in the centre of the rear end bearing plate. Do not over-oil.                                                  | 3-in-One SAE 20<br>or Valvoline VR1 20W-50                                | 4 years                                                                     | 12000 miles                                                                 |
|                                     | Remove inner cable from tach. Lube inner cable sparingly.                                                                                                    | Lucas Red "N" Tacky                                                       | 4 years                                                                     | 12000 miles                                                                 |
|                                     | Remove inner cable from speedo. Lube inner cable sparingly.                                                                                                  | Lucas Red "N" Tacky                                                       | 4 years                                                                     | 12000 miles                                                                 |
|                                     | Clean sediment from float bowls.                                                                                                                             |                                                                           | 4 years                                                                     | 12000 miles                                                                 |
|                                     | Clean carb suction chambers & pistons. Refill.                                                                                                               | 3-in-One SAE 20<br>or Valvoline VR1 20W-50                                | 4 years                                                                     | 12000 miles                                                                 |
|                                     | Recommend: Replace all rubber belts, hoses, flexible brake hoses.                                                                                            |                                                                           | 4-6 years                                                                   |                                                                             |

# THE 'MGA' AND 'MGA 1600' LUBRICATION CHART



## KEY TO LUBRICATION CHART

### DAILY

- (1) ENGINE. Check the oil level with the dipstick, and replenish if necessary with oil to Ref. A.

### EVERY 3,000 MILES (5000 Km.)

- (2) GEARBOX. Check the oil level with the dipstick, and replenish if necessary with oil to Ref. A.
- (3) REAR AXLE. Remove the filler plug and replenish to the filler plug level with oil to Ref. B.
- (4) STEERING. Give three or four strokes of the gun filled to Ref. C to the nipples on the steering joints.
- (5) PROPELLER SHAFT. Give the shaft coupling and sliding joint nipples three or four strokes with the gun filled to Ref. C. Earlier cars have two propeller shaft nipples only.

- (6) HAND BRAKE. Give the cable nipples three or four strokes of the gun filled with grease to Ref. C.
- (7) CARBURETTORS. Remove the cap from the top of each suction chamber and add a few drops of oil to Ref. D.

- (8) AIR CLEANERS. Wash the filter elements and allow to dry. Re-oil the elements with oil to Ref. A and allow to drain before reassembly.

- (9) ENGINE. Drain off the old oil from the sump and refill with fresh oil to Ref. A.

### EVERY 6,000 MILES (10000 Km.)

- (10) DISTRIBUTOR. Withdraw the rotor arm and add a few drops of oil to Ref. D to the cam bearing and

to the advance mechanism through the gap round the cam spindle. Smear the cam lightly with grease to Ref. C and add a spot of oil to the contact breaker pivot.

- (11) OIL FILTER. Release the filter bowl, wash in fuel, and fit a new element.
- (12) GEARBOX. Drain off the old oil and refill with fresh oil to Ref. A.
- (13) REAR AXLE. Drain off the old oil and refill with fresh oil to Ref. B.
- (14) DYNAMO. Add a few drops of oil to Ref. D through the oil hole in the commutator end bearing.

### EVERY 12,000 MILES (20000 Km.)

- (15) STEERING. Give up to 10 strokes to the nipple on the steering gearbox and two strokes only to the pinion shaft nipple. Use oil to Ref. B.
- (16) WATER PUMP. Remove the plug from the water pump and lubricate sparingly with grease to Ref. C.

### MULTIGRADE MOTOR OILS

In addition to the recommended lubricants listed in the Manual we approve the use of these motor oils, as produced by the oil companies shown in our publications, for all climatic conditions unless the engine is in poor mechanical condition.

# MGB LUBE & MAINTENANCE SCHEDULE

Print blank schedule each time you service

DATE: \_\_\_\_\_

Record date, ☒ completed task, file all in your glovebox

| <input checked="" type="checkbox"/> | TASK - MGB                                                                                                                                                                                                                                 | MODERN LUBRICANT<br><i>See text for alternatives</i><br><br>(Lonnie Cook) | FREQUENCY<br><i>Driven less than</i><br>3,000 mi/yr<br>(Lonnie Cook) | FREQUENCY<br><i>Not Applicable</i><br><br>(Operation Man)<br>(Workshop Man) |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                     | Lube inner & outer wheel bearings if removed or replaced. Afterward, inner bearings are lubricated by outer bearings.                                                                                                                      | Lucas Red "N" Tacky                                                       | As needed                                                            | As needed                                                                   |
|                                     | Ball Joints: No maintenance. Replace damaged boots & seals                                                                                                                                                                                 |                                                                           | As needed                                                            | As needed                                                                   |
|                                     | Visual & auditory check top & bottom. Tighten, repair, replace.                                                                                                                                                                            |                                                                           | Every drive                                                          |                                                                             |
|                                     | Check engine oil and fill to "MAX"                                                                                                                                                                                                         | Valvoline VR1 20W-50                                                      | Every drive                                                          | Weekly                                                                      |
|                                     | Check coolant level & fill                                                                                                                                                                                                                 | Distilled H <sub>2</sub> O                                                | Every drive                                                          | Weekly                                                                      |
|                                     | Check tire pressure and condition                                                                                                                                                                                                          | Bias orig approx. 19F, 22R<br>Radial orig approx. 21F, 24R                | Every drive                                                          | Weekly                                                                      |
|                                     | Lube top & bottom swivel pin bushes (4 nipples) and base of swivel pin (2 nipples). 2 or 3 pumps.                                                                                                                                          | Lucas Red "N" Tacky                                                       | 6 months                                                             | 3000 mi / 3 mo                                                              |
|                                     | Lube prop shaft. 3 or 4 pumps<br>Early cars - Sliding yoke (1 nipple). Front & rear universal joints (2 nipples).<br>Later cars - Sliding yoke only (1 nipple)                                                                             | Lucas Red "N" Tacky                                                       | 6 months                                                             | 3000 mi / 3 mo                                                              |
|                                     | Lube hand brake cable (1 nipple) 3 or 4 pumps.                                                                                                                                                                                             | Lucas Red "N" Tacky                                                       | 6 months                                                             | 3000 mi / 3 mo                                                              |
|                                     | Oil accelerator pedal fulcrum                                                                                                                                                                                                              | Valvoline VR1 20W-50                                                      | 6 months                                                             | 3000 mi / 3 mo                                                              |
|                                     | Oil carb cables, choke linkage, throttle & control linkages                                                                                                                                                                                | Valvoline VR1 20W-50                                                      | 6 months                                                             | 3000 mi / 3 mo                                                              |
|                                     | Oil carb throttle shafts at carb body                                                                                                                                                                                                      | Valvoline VR1 20W-50                                                      | 6 months                                                             | 3000 mi / 3 mo                                                              |
|                                     | Lubricate just about any non-electric metal-to-metal that moves, e.g., hinges, latches, catches, seat slides.                                                                                                                              | 3-in-One SAE 20<br>Valvoline VR1 20W-50<br>Lucas Red "N" Tacky            | 6 months                                                             | 3000 mi / 3 mo                                                              |
|                                     | Check gearbox & overdrive. Fill to "HIGH"                                                                                                                                                                                                  | Valvoline VR1 20W-50                                                      | 6 months                                                             | 3000 mi / 3 mo                                                              |
|                                     | MGB Automatic Transmission: Check MGB automatic transmission in "Park" at running temperature. Fill to "MAX"                                                                                                                               | Type F ATF                                                                | 6 months                                                             | 3000 mi / 3 mo                                                              |
|                                     | Check rear axle hypoid gear oil & fill to level of filler plug                                                                                                                                                                             | Sta-Lube GL-4 SAE 90                                                      | 6 months                                                             | 3000 mi / 3 mo                                                              |
|                                     | Check & fill brake fluid to 1/2" below bottom of filler cap.<br>Check flexible brake hoses.                                                                                                                                                | DOT3, DOT4, or DOT5<br>(do not mix)                                       | 6 months                                                             | 3000 mi / 3 mo                                                              |
|                                     | Check & fill clutch fluid to 1/2" below bottom of filler cap                                                                                                                                                                               | DOT3, DOT4, or DOT5<br>(do not mix)                                       | 6 months                                                             | 3000 mi / 3 mo                                                              |
|                                     | Check battery & fill just above separators. Clean terminals.                                                                                                                                                                               | Distilled H <sub>2</sub> O                                                | 6 months                                                             | Weekly                                                                      |
|                                     | Check & tighten all fasteners + suspension & wheels                                                                                                                                                                                        |                                                                           | 6 months                                                             |                                                                             |
|                                     | Drain (warm) & fill engine oil to "MAX"                                                                                                                                                                                                    | Valvoline VR1 20W-50                                                      | 6 mo (12 ?)                                                          | 3000 mi / 3 mo                                                              |
|                                     | Anneal or replace oil sump drain plug copper washer                                                                                                                                                                                        | Moss #324-626                                                             | 6 mo (12 ?)                                                          | 3000 mi / 3 mo LC                                                           |
|                                     | Replace oil filter element                                                                                                                                                                                                                 | Wix 51300; GFE121; (?)                                                    | 6 mo (12 ?)                                                          | 6000 mi / 6 mo                                                              |
|                                     | Oil distributor cam bearing.                                                                                                                                                                                                               | 3-in-One SAE 20                                                           | 12 months                                                            | 6000 mi / 6 mo                                                              |
|                                     | Oil automatic timing control.                                                                                                                                                                                                              | 3-in-One SAE 20<br>or Valvoline VR1 20W-50                                | 12 months                                                            | 6000 mi / 6 mo                                                              |
|                                     | Oil contact breaker pivot - less than drop<br>Not required on 45DE4 distributor with electronic ignition.                                                                                                                                  | 3-in-One SAE 20<br>or Valvoline VR1 20W-50                                | 12 months                                                            | 6000 mi / 6 mo                                                              |
|                                     | Lube distributor cam. Sparingly<br>Not required on 45DE4 distributor with electronic ignition.                                                                                                                                             | Lucas Red "N" Tacky<br>or Lubricam SL-2                                   | 12 months                                                            | 6000 mi / 6 mo                                                              |
|                                     | Lube water pump. EARLY CARS: Early cars: small amount.<br>Do not pressure lube. LATER CARS: No lube necessary.                                                                                                                             | Lucas Red "N" Tacky                                                       | 12 months                                                            | 3000 mi / 3 mo                                                              |
|                                     | Top up carb piston to 1/2" <u>above</u> top of the hollow piston rod.<br>On dust-proofed carburetors - (transverse hole drilled in neck of suction chambers and no vent hole in damper cap) top up to 1/2" <u>below</u> top of piston rod. | Valvoline VR1 20W-50                                                      | 12 months                                                            | 6000 mi / 6 mo                                                              |

# MGB LUBE & MAINTENANCE SCHEDULE

Print blank schedule each time you service

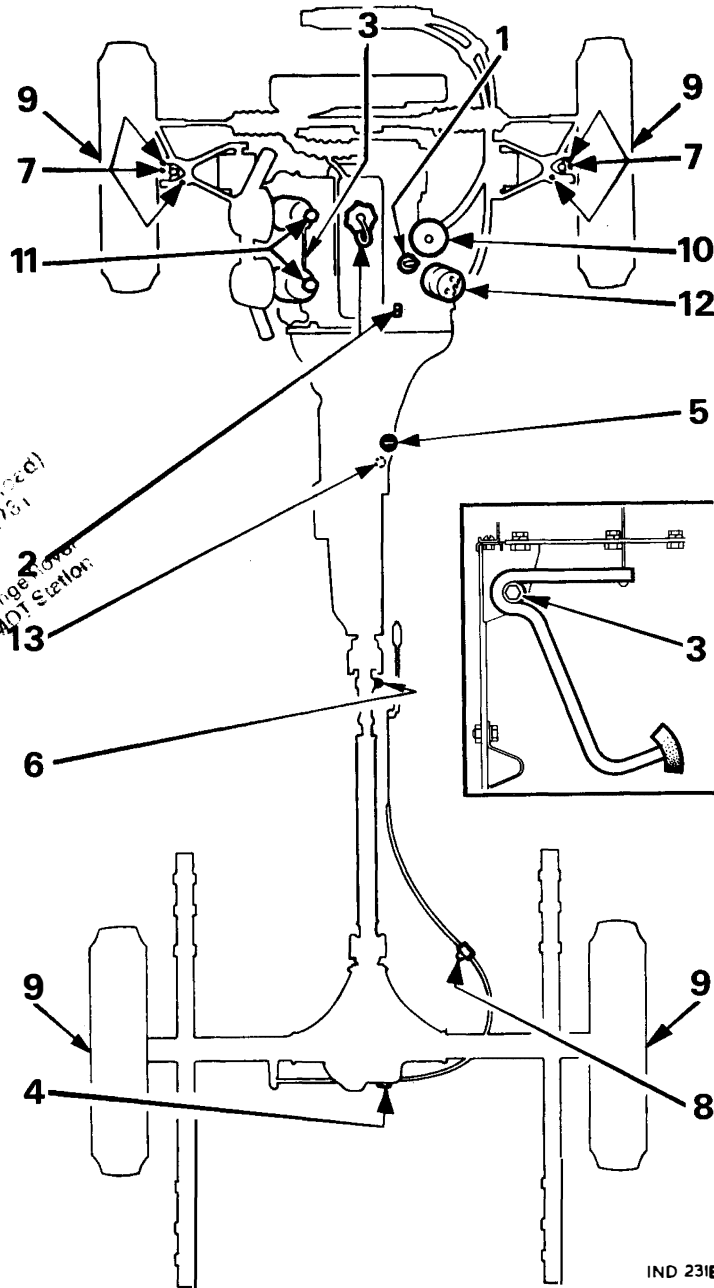
DATE: \_\_\_\_\_

Record date, ☒ completed task, file all in your glovebox

| <input checked="" type="checkbox"/> | TASK - MGB                                                                                                                                                                                                                                                               | MODERN LUBRICANT<br><i>See text for alternatives</i><br><br>(Lonnie Cook) | FREQUENCY<br><i>Driven less than</i><br>3,000 mi/yr<br>(Lonnie Cook) | FREQUENCY<br><i>Not Applicable</i><br><br>(Operation Man)<br>(Workshop Man) |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                     | Two drops oil to hole in rear end generator bearing plate. 1967 MGB and earlier. 1971 Midget and earlier.                                                                                                                                                                | Valvoline VR1 20W-50                                                      | 12 months                                                            | 6000 mi / 6 mo                                                              |
|                                     | Check condition of all hoses, vacuum, air, cooling, & heater. Replace if needed                                                                                                                                                                                          |                                                                           | 12 months                                                            | 12000 mi / 12 mo                                                            |
|                                     | Check fuel pipes & unions for chafing, corrosion & leaks                                                                                                                                                                                                                 |                                                                           | 12 months                                                            | 12000 mi / 12 mo                                                            |
|                                     | Check hydraulic pipes, unions for chafing, corrosion & leaks                                                                                                                                                                                                             |                                                                           | 12 months                                                            | 12000 mi / 12 mo                                                            |
|                                     | Remove wire wheels. Lightly lube wheels & hubs                                                                                                                                                                                                                           | Lucas Red "N" Tacky & anti seize                                          | 12 months                                                            | 3000 mi / 3 mo                                                              |
|                                     | Check age and condition of tires. Record production date each tire. Replace 7 yrs after production.                                                                                                                                                                      |                                                                           | 12 months                                                            | 12000 mi / 12 mo                                                            |
|                                     | Flush & fill brake fluid to 1/2" below bottom of filler cap. ( <i>Glycol brake fluid</i> )                                                                                                                                                                               | DOT3 or DOT4<br>(do not mix with DOT5)                                    | 2 years                                                              | 24000 mi / 24 mo                                                            |
|                                     | Drain gearbox & overdrive, clean overdrive filter. Refill to HIGH                                                                                                                                                                                                        | Valvoline VR1 20W-50                                                      | 2 years                                                              | 24000 mi / 24 mo                                                            |
|                                     | MGB Automatic Transmission: Drain and fill to "MAX".                                                                                                                                                                                                                     | Type F ATF                                                                | 2 years                                                              | 24000 mi / 24 mo                                                            |
|                                     | Drain & fill rear axle to filler plug. Loosen filler before draining.                                                                                                                                                                                                    | Sta-Lube GL-4 SAE 90                                                      | 2 years                                                              | Not specified                                                               |
|                                     | Oil steering rack.<br>EARLY CARS: (1 nipple) on the steering-gear housing. Max 10 pumps gear oil. LHD nipple under radiator. RHD: nipple above steering rack.<br>LATER CARS: "No maintenance." (May need to add gear oil to gaiters or pinion damper cover and housing.) | Sta-Lube GL-4 SAE 90                                                      | 2 years                                                              | 12000 mi / 12 mo                                                            |
|                                     | Lube speedometer cable.                                                                                                                                                                                                                                                  | Lucas Red "N" Tacky                                                       | 2 years                                                              | 12000 mi / 12 mo                                                            |
|                                     | Clean or replace filters in carburetors & fuel pump where fitted                                                                                                                                                                                                         |                                                                           | 2 years                                                              | 6000 mi / 6 mo                                                              |
|                                     | Clean sediment from float bowls. Inspect needle valve.                                                                                                                                                                                                                   |                                                                           | 2 years                                                              | 12000 mi / 12 mo                                                            |
|                                     | Replace air filter elements - air pump & carb                                                                                                                                                                                                                            |                                                                           | 2 years                                                              | 12000 mi / 12 mo                                                            |
|                                     | Check & adjust drive belts.                                                                                                                                                                                                                                              | Alternator: 1/2" deflection @ longest run between pulleys                 | 2 years                                                              | 12000 mi / 12 mo                                                            |
|                                     | Replace fuel line filter                                                                                                                                                                                                                                                 |                                                                           | 2 years                                                              | 12000 mi / 12 mo                                                            |
|                                     | Check steering and suspension for wear                                                                                                                                                                                                                                   |                                                                           | 2 years                                                              | 12000 mi / 12 mo                                                            |
|                                     | Flush and fill brake fluid to 1/2" below bottom of filler cap. ( <i>Silicone brake fluid</i> )                                                                                                                                                                           | DOT5 (do not mix with DOT3 or DOT4)                                       | 4 years                                                              | 24000 mi / 24 mo                                                            |
|                                     | Drain & flush cooling system.<br>EARLY CARS: Drain tap on radiator & tap or plug at right-rear of block.<br>LATER CARS: Remove bottom hose at radiator.                                                                                                                  | Prestone All Vehicles<br>+ Distilled H <sub>2</sub> O                     | 4 years                                                              | 6000 mi / 6 mo                                                              |
|                                     | Check front & rear shock fluid level. Fill to bottom of filler plug.                                                                                                                                                                                                     | AWE68 or AW68<br>Hydraulic Fluid                                          | 4 years                                                              | 1000000 mi                                                                  |
|                                     | Check, clean, repair, replace emissions items.<br>Oil filler cap, breather control valve, crankcase breather valve, fuel filler cap seal, gulp valve, rocker cover purge line, air pump, absorption canister, exhaust emissions                                          |                                                                           | 4 years                                                              | 5 Years                                                                     |
|                                     | Recommend: Replace all rubber belts, hoses, vacuum hoses, flexible brake hoses.                                                                                                                                                                                          |                                                                           | 4-6 years                                                            |                                                                             |

# LUBRICATION CHART

## NORTH AMERICA



IND 231E

**NOTE:**—Ensure that the vehicle is standing on a level surface when checking the oil levels.

### Weekly

- (1) **ENGINE.** Check oil level, and top up if necessary.

### Lubrication service every 3,000 miles or 3 months

- (2) **ENGINE.** Drain and refill with new oil.  
 (3) **THROTTLE AND CHOKE.** Lubricate throttle and choke control linkages, cables, and accelerator pedal fulcrum.  
 (4) **REAR AXLE.** Check oil level, and top up if necessary.  
 (5) **GEARBOX AND OVERDRIVE.** Check oil level, and top up if necessary.  
 (6) **PROPELLER SHAFT** (1 nipple)  
 (7) **FRONT SUSPENSION** (6 nipples)  
 (8) **HAND BRAKE CABLE** (1 nipple)  
 (9) **WHEELS AND HUBS.** Lubricate wire wheel and hub splines.

} Give three or four strokes with a grease gun.

**LOCKS, HINGES AND LINKAGES.** Lubricate all door, bonnet and boot locks and hinges; and the hand brake mechanical linkage.

**FRICTION POINTS.** Spray lubricant on all friction points.

**'A' service every 6,000 miles or 6 months; AND 'B' service every 12,000 miles or 12 months**

- (10) **ENGINE OIL FILTER.** Remove disposable cartridge, fit new.  
 (11) **CARBURETTERS.** Top up carburetter piston dampers.  
 (12) **DISTRIBUTOR.** Lubricate all parts as necessary.

**Every 24,000 miles or 24 months**

- (13) **GEARBOX WITH OVERDRIVE.** Drain, clean over-drive filter, refill with new oil.

**Recommended oils and greases are given at the end of the manual**