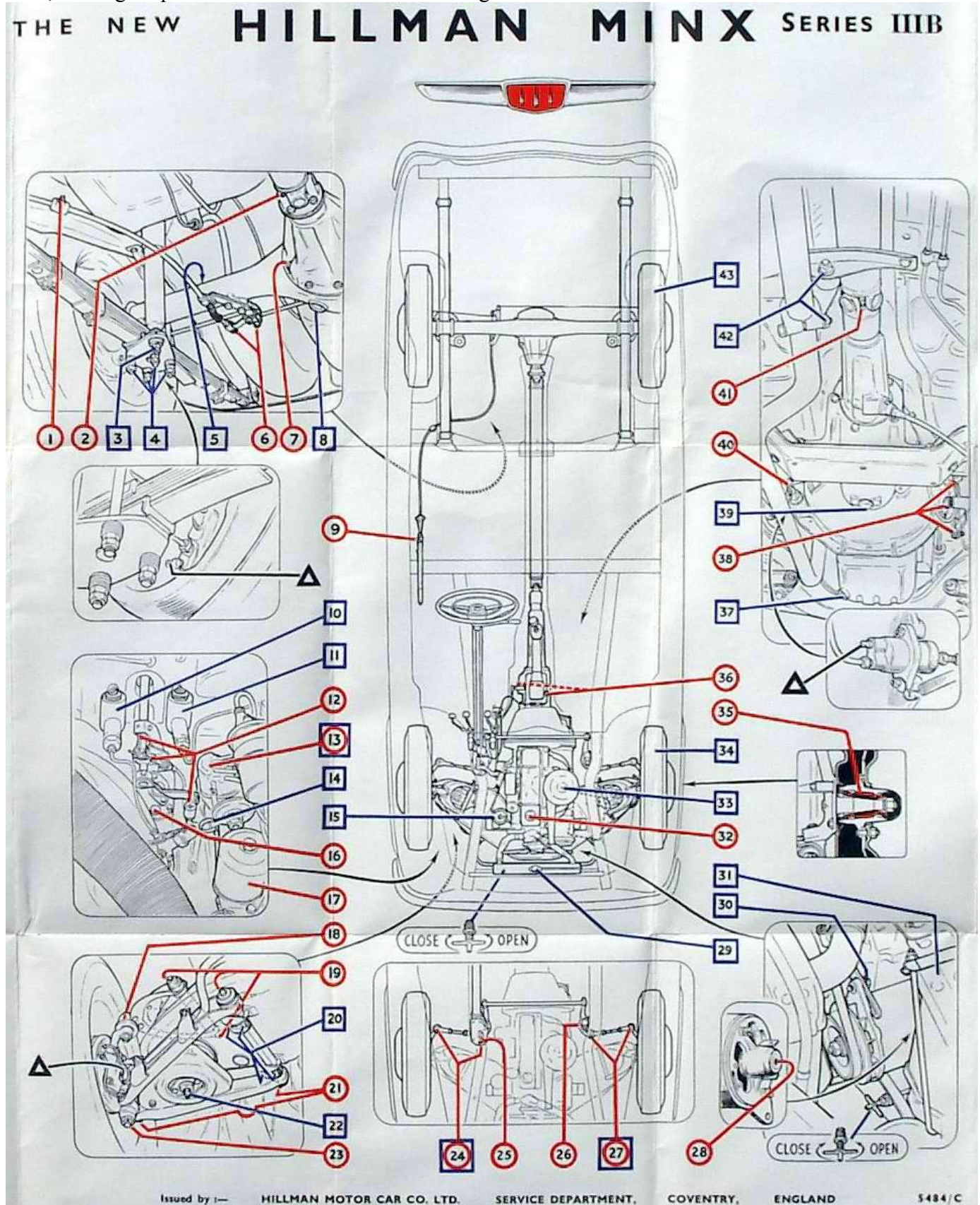


# Hillman Minx Maintenance Schedule

The maintenance schedule for most Series Minxes can be found as a large fold-out sheet, pasted inside the back cover of the Owner's Handbook. Series V and VI have a much smaller number of parts needing maintenance, so the schedule is simply the centre pages.

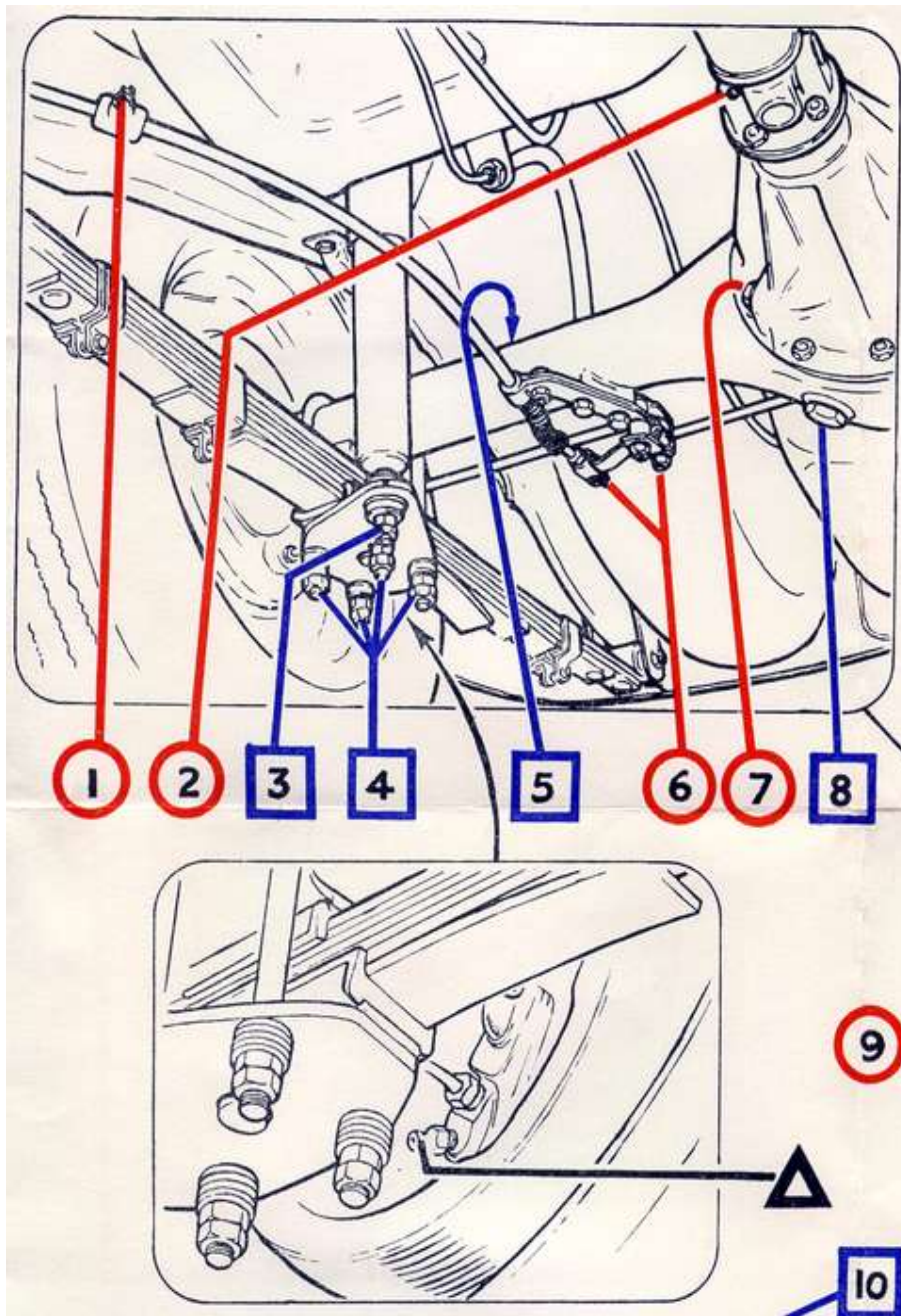
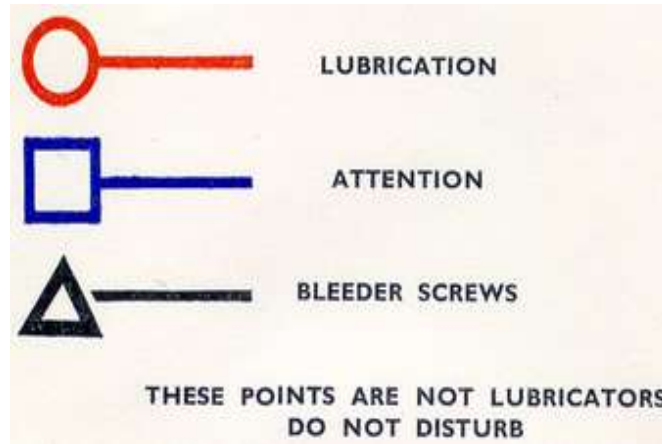
I have chosen Series IIIB here, as a typical representation of the early to middle Series Minxes.

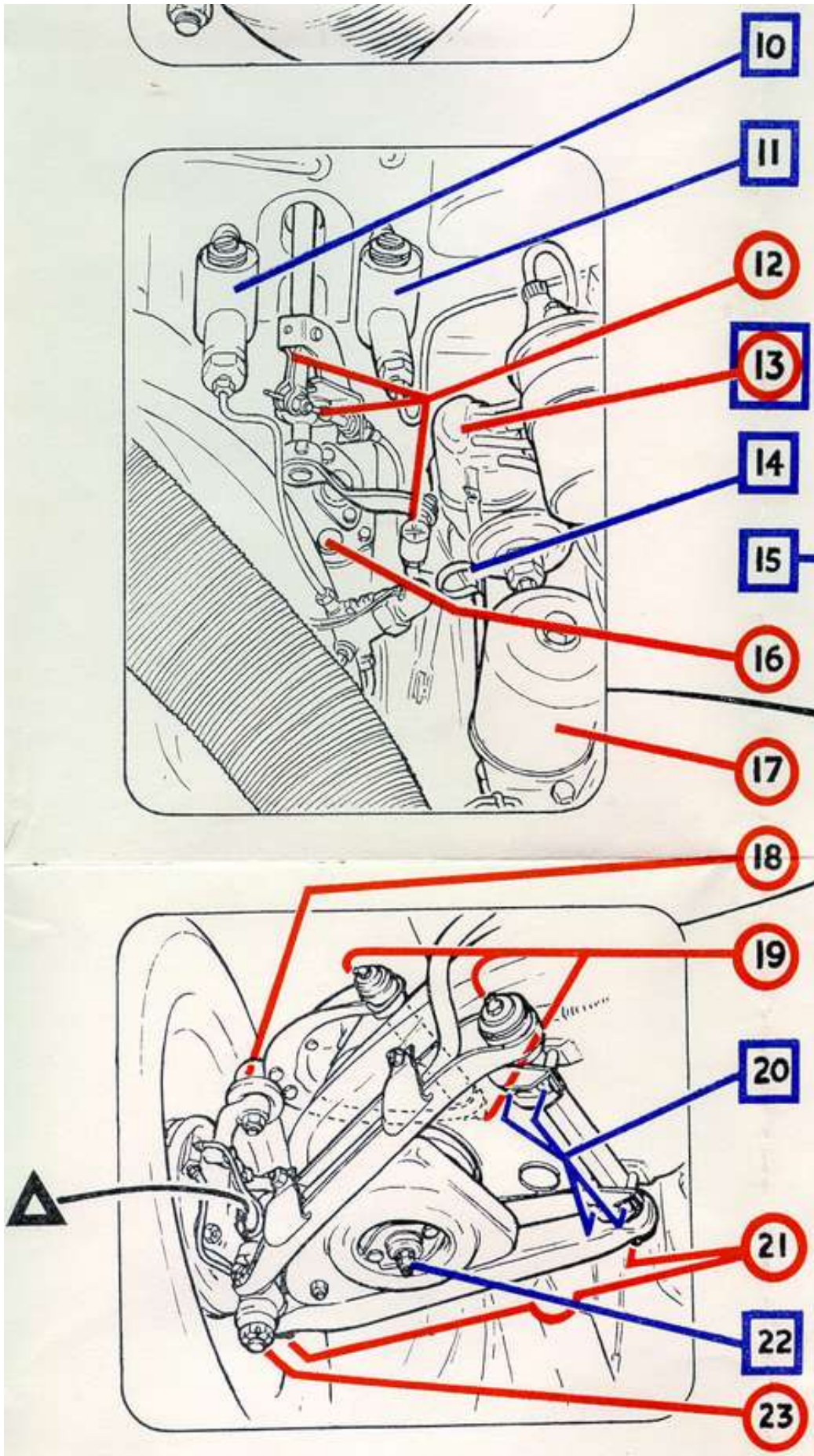
First, this digital photo as an overview of the drawings:



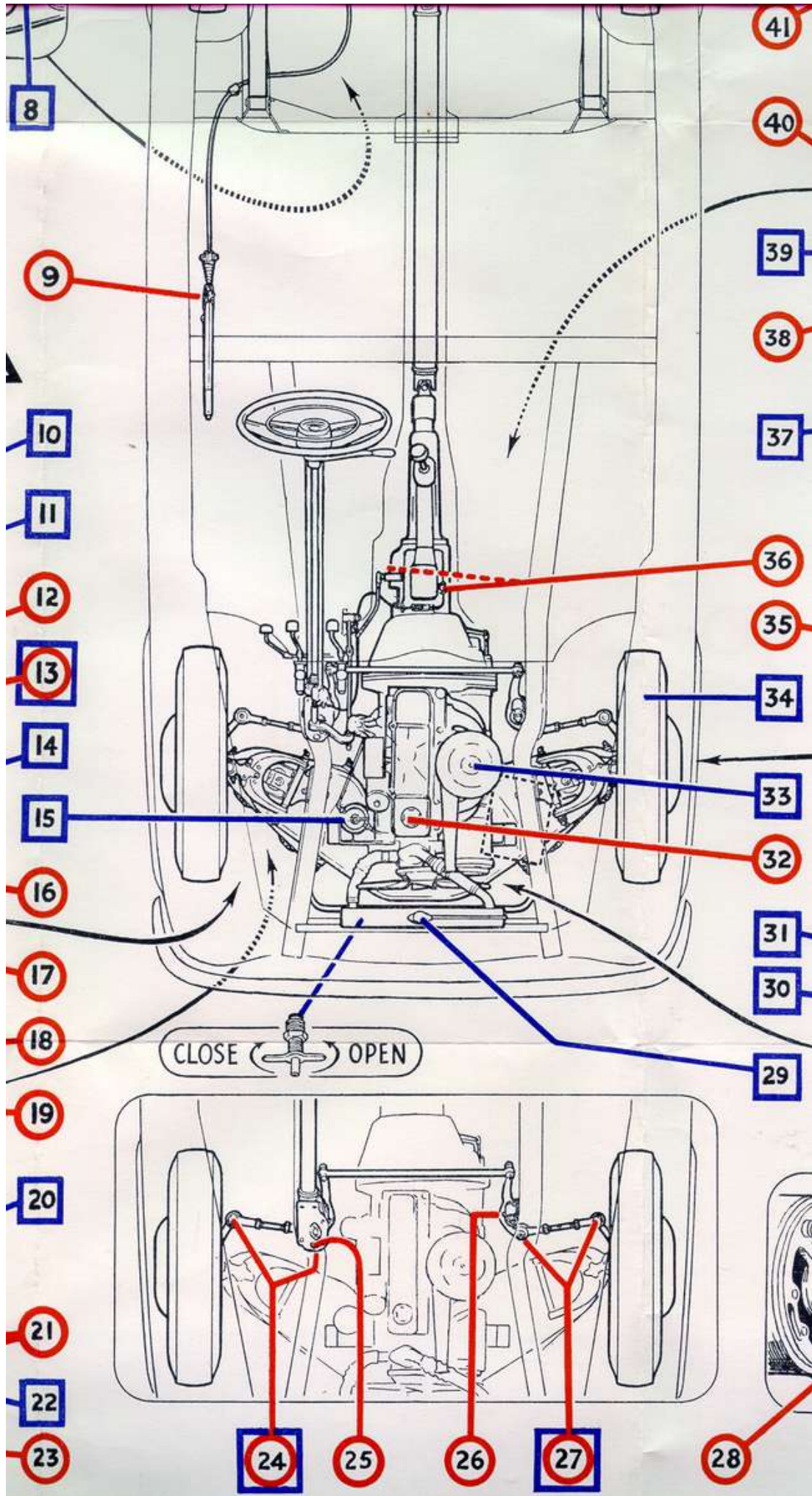


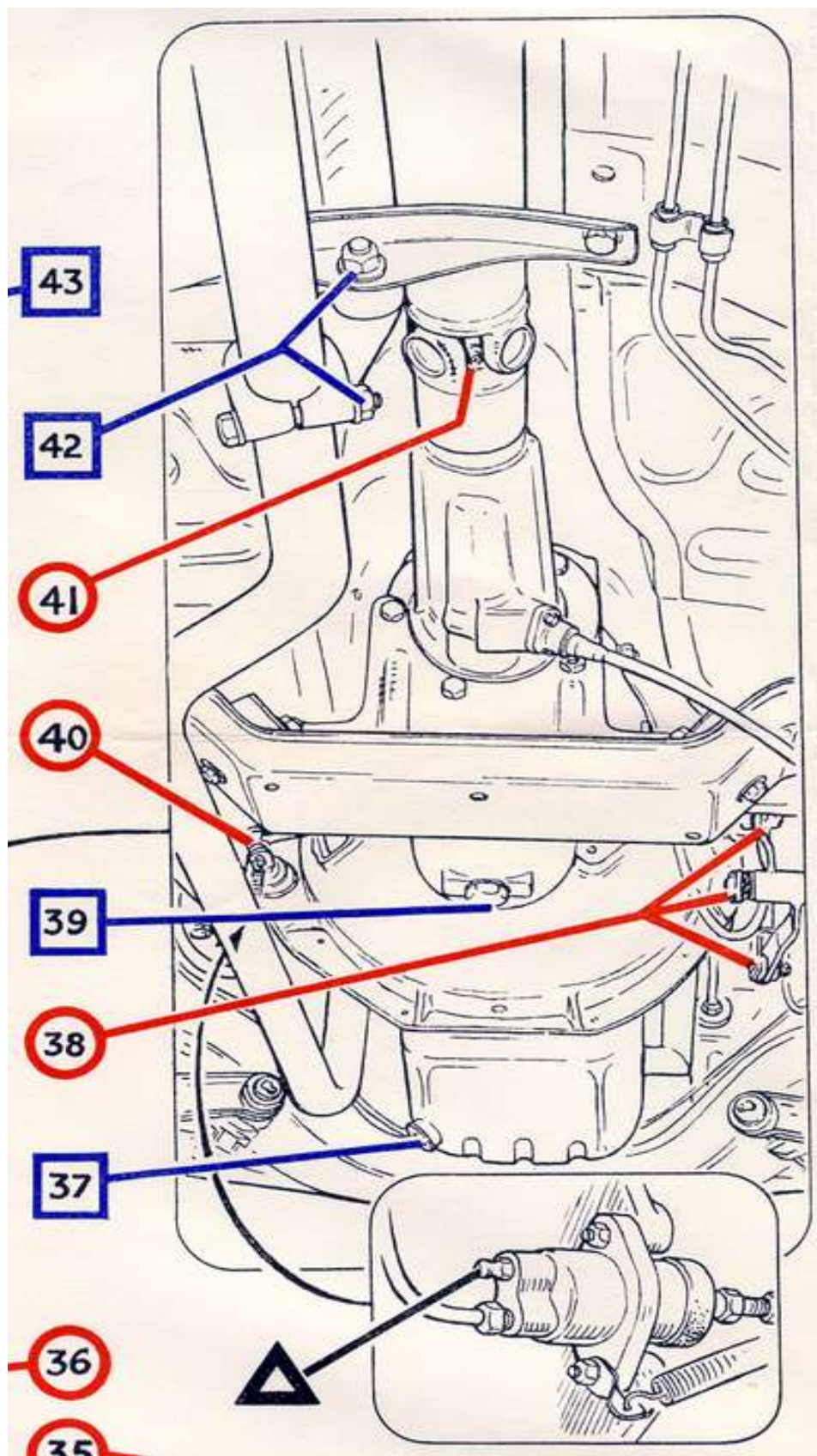
Now the drawings, in scanner-size pieces:



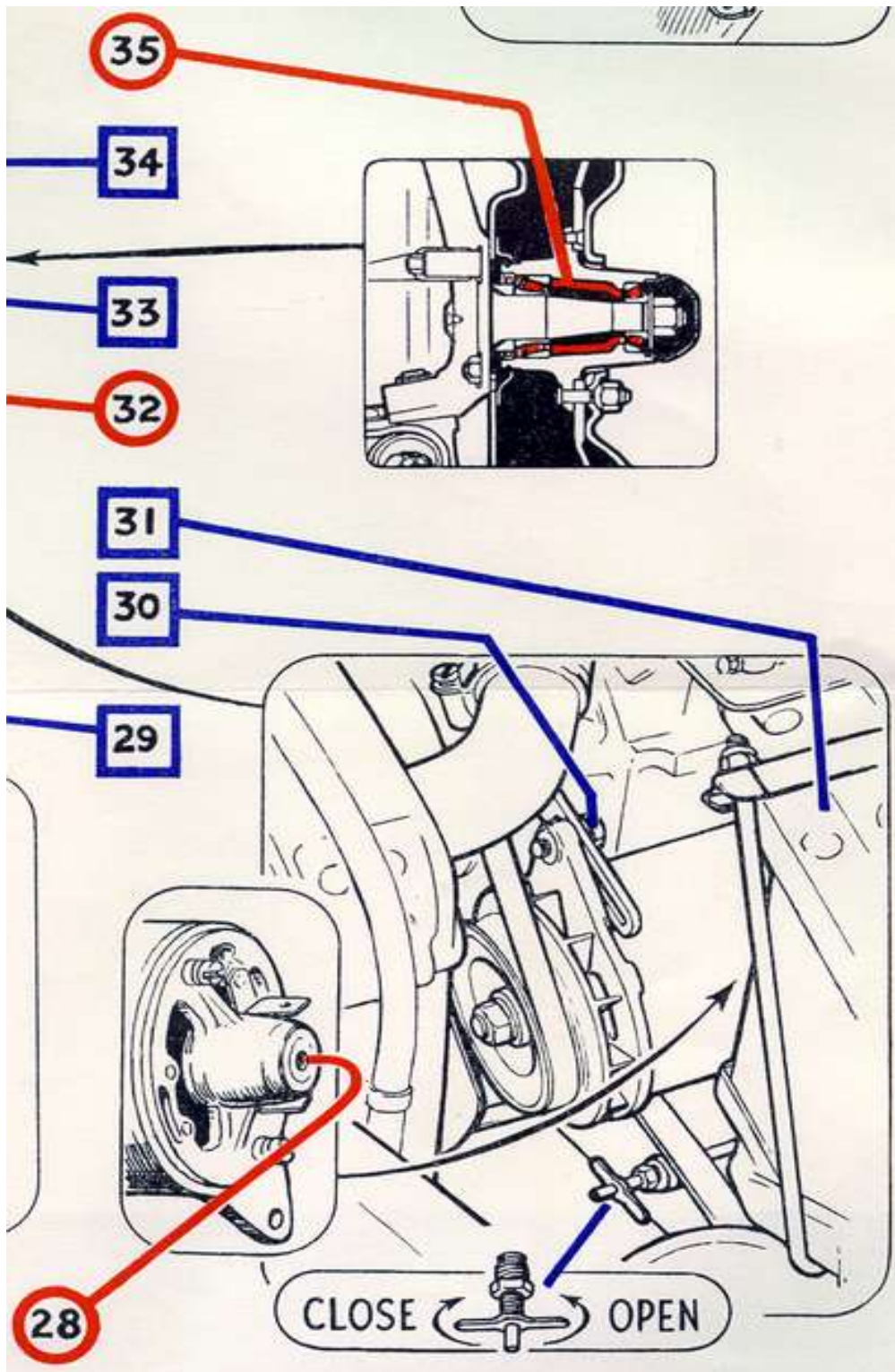












# RECOMMENDED LUBRICANTS

ENGINE. Where prevailing climatic temperature is

Above 70°F. (21°C.)	SHELL X100 30 or SHELL XI00 MULTIGRADE 20W/40
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SUMP (OIL PAN) 80°F. to 20°F. (27°C. to minus 7°C.)	SHELL X100 20W/20 or SHELL X100 MULTIGRADE 10W/30
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32°F. to 0°F. (0°C. to minus 18°C.)	SHELL X100 10W or SHELL X100 MULTIGRADE 5W/20
--	---

Below 5°F. (minus 15°C.)	SHELL X100 MULTIGRADE 5W/20
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UPPER CYLINDER LUBRICANT	SHELL UPPER CYLINDER LUBRICANT or SHELL DONAX U
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<b>DISTRIBUTOR</b>	
SHAFT AND CAM BEARING	ENGINE OIL
CONTACT BREAKER PIVOT	ENGINE OIL
CAM PROFILE	SHELL RETINAX A
AUTOMATIC TIMING (SPARK) CONTROL	ENGINE OIL

<b>GENERATOR</b>	ENGINE OIL
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<b>BATTERY TERMINALS</b>	PETROLEUM JELLY
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<b>STEERING UNIT</b>	SHELL SPIRAX 90 E.P.
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<b>FRONT SUSPENSION AND STEERING LINKAGE</b>	
LINKS, STEERING LINKAGE, IDLER PIVOT AND KING PINS	SHELL SPIRAX 140 E.P. or SHELL RETINAX A

<b>GEAR SHIFT LINKAGE AND CABLE</b> ( <i>Column change</i> )	ENGINE OIL
--	------------

<b>ACCELERATOR LINKAGE</b>	ENGINE OIL
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<b>GEARBOX (TRANSMISSION)</b>	
Above minus 10°F. (minus 23°C.)	SHELL X100 30

Below minus 10°F. (minus 23°C.)	SHELL X100 20/20W
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## **Favourable**

Essentially long distance journeys, with little or no engine idling, on well surfaced roads reasonably free from dust.

## **Average**

Predominantly medium length journeys on well surfaced roads with a small proportion of stop/start operation.

## **Unfavourable**

Any of the following

- (a) Habitual stop/start driving.
- (b) Operation during cold weather especially when appreciable engine idling is involved.
- (c) When much driving is done under dusty conditions.



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## **DAILY**

- 29 Radiator** – Check water level (use soft or rain water).

## **WEEKLY.**

- 31 Battery** – Check electrolyte level (to top of separators only).  
**34, 43 Tyres** – Check pressures (including spare).

## **EVERY 250 MILES (400 KM.).**

- 14 Engine** – Check oil level in sump.

## **EVERY 1,000 MILES (1,600 KM.).**

- 29 Radiator** – Check water level (use soft or rain water).  
**31 Battery** – Check electrolyte level.  
**34, 43 Tyres** – Check pressure (including spare wheel).  
**14 Engine Sump** – Check oil level.  
**10, 11 Brakes and Clutch** – Check master cylinder fluid level and top up if necessary.  
**Steering linkage and front suspension:–**  
**18, 23** Lubricate stub axle ball joint and swivel pin.  
**24, 27** Lubricate track rod joints.  
**19, 21** Lubricate suspension link bushes.  
**26** Lubricate idler lever bushes.  
**2, 41 Propeller shaft** – Lubricate universal joints.

## **EVERY 2,000 MILES (3,200 KM.).**

- 29 **Radiator** – Check water level (use soft or rain water).
- 31 **Battery** – Check electrolyte level.
- 34, 43 **Tyres** – Check pressure (including spare wheel).
- 32, 37 **Engine sump** – Drain when hot. Refill with new oil of recommended grade.
- 10, 11 **Brakes and clutch** – Check master cylinder fluid level and top up if necessary.
- Steering linkage and front suspension:–**
- 18, 23 Lubricate stub axle ball joint and swivel pin.
- 24, 27 Lubricate track rod joints.
- 19, 21 Lubricate suspension link bushes.
- 26 Lubricate idler lever bushes.
- 2, 41 **Propeller shaft** – Lubricate universal joints.

**EVERY 3,000 MILES (4,800 KM.).**

- 29 **Radiator** – Check water level (use soft or rain water).
- 31 **Battery** – Check electrolyte level. Clean terminals and smear with petroleum jelly.
- 34, 43 **Wheels** – Change all wheels diagonally.
- 34, 43 **Tyres** – Check pressures (including spare wheel).
- 14 **Engine sump** – Check oil level.
- Distributor :–**
- 13 Oil automatic timing mechanism.
- 13 Grease cam profile.
- 13 Oil contact breaker moving contact pivot.
- 13 Oil shaft and cam bearing.
- 13 Check contact breaker gap, clean and adjust if necessary and reset ignition timing.
- Accelerator** – Oil control linkage and pedal fulcrum.
- 36 **Gearbox** – Check oil level.
- 12, 38 **Gearshift mechanism** – Lubricate. *Column change only.*
- 11, 40 **Clutch** – Check master cylinder fluid level and top up if necessary. Oil withdrawal lever jaw pin (slave cylinder to withdrawal lever). Check free movement at end of withdrawal lever (adjustable clutch only) and adjust if necessary. Inspect hydraulic pipe connections for leaks.
- Brake and clutch pedals** – Oil pivot bushes and linkage joints.
- 10 **Brakes** – Check master cylinder fluid level and top up if necessary. Inspect hydraulic pipe connections, pipe lines and unions for leaks. Test and adjust if necessary.
- 1, 6, 9 Lubricate handbrake cable and linkage.
- 16 **Steering unit** – Top up.
- Steering linkage and front suspension:–**
- 18, 23 Lubricate stub axle ball joint and swivel pin.
- 24, 27 Lubricate track rod joints.
- 19, 21 Lubricate suspension link bushes.
- 26 Lubricate idler lever bushes.
- 2, 41 **Propeller shaft** – Lubricate universal joints.
- 7 **Rear axle** – Check level and top up.
- Body** – Oil door strikers, locks, hinges, bonnet and boot hinges and locks (including tailgate hinges and locks on Estate car). Check drain holes in lower edge of each door.



## **EVERY 6,000 MILES (9,600 KM.).**

- 29 **Radiator** – Check water level (use soft or rain water).
- 31 **Battery** – Check electrolyte level. Clean terminals and smear with petroleum jelly.
- 34, 43 **Wheels** – Change all wheels diagonally.
- 34, 43 **Tyres** – Check pressures (including spare wheel).
- 17 **Oil Filter** – Drain when hot. Renew element.
- 32, 37 **Engine sump** – Drain when hot. Refill with new oil of recommended grade.
- Sparking plugs** – Clean and check gaps.
- Distributor :-**
  - 13 Oil automatic timing mechanism.
  - 13 Grease cam profile.
  - 13 Oil contact breaker moving contact pivot.
  - 13 Oil shaft and cam bearing.
  - 13 Check contact breaker gap, clean and adjust if necessary, and reset ignition timing.
- 28 **Generator** – Lubricate rear bearing.
- Carburettor** – Clean float chamber.
- 15 **Fuel pump** – Clean filter and sediment chamber.
- 30 **Fan belt** – Check tension and adjust if necessary.
- Accelerator** – Oil control linkage and pedal fulcrum.
- 12, 38 **Gearshift mechanism** – Lubricate. *Column change only.*
- 36, 39 **Gearbox** – Drain (when hot) and refill with fresh oil.
- 11, 40 **Clutch** – Check master cylinder fluid level and top up if necessary. Oil withdrawal lever jaw pin (slave cylinder to withdrawal lever). Check free movement at end of withdrawal lever (adjustable clutch only) and adjust if necessary. Inspect hydraulic pipe connections for leaks.
- Brake and clutch pedals** – Oil pivot bushes and linkage joints.
- 10 **Brakes** – Check master cylinder fluid level and top up if necessary. Inspect hydraulic pipe connections, pipe lines and unions for leaks. Test and adjust if necessary.
- 1, 6, 9 Lubricate handbrake cable and linkage.
- 16 **Steering unit** – Top up.
- Steering linkage and front suspension :-**
  - 18, 23 Lubricate stub axle ball joints and swivel pin.
  - 24, 27 Lubricate track rod joints.
  - 19, 21 Lubricate suspension link bushes.
  - 26 Lubricate idler lever bushes.
- 2, 41 **Propeller shaft** – Lubricate universal joints.
- 5, 7, 8 **Rear axle** – Drain (when hot) and refill with fresh oil. Clean breather hole.
- Body** – Oil door strikers, locks, hinges, bonnet and boot hinges and locks (including tailgate hinges and locks on Estate car). Check drain holes in lower edge of each door.

## **EVERY 12,000 MILES (19,200 KM.).**

- 29 **Radiator** – Check water level (use soft or rain water).
- 31 **Battery** – Check electrolyte level. Clean terminals and smear with petroleum jelly.
- 34, 43 **Wheels** – Change all wheels diagonally.
- 34, 43 **Tyres** – Check pressures (including spare wheel).

- 17 **Oil filter** – Drain when hot. Renew element.
- 32, 37 **Engine sump** – Drain when hot. Refill with new oil of recommended grade.
- 33 **Air cleaner** – Clean and renew filter element. (See handbook).
- Sparking Plugs** – Clean and check gaps. Test and renew if necessary.
- Distributor :-**
- 13 Oil automatic timing mechanism.
- 13 Grease cam profile.
- 13 Oil contact breaker moving contact pivot.
- 13 Oil shaft and cam bearing.
- 13 Check contact breaker gap, clean and adjust if necessary, and reset ignition timing.
- 28 **Generator** – Lubricate rear bearing.
- Starter motor** – Check fixing bolts for tightness.
- Carburettor** – Clean float chamber.
- 15 **Fuel pump** – Clean filter and sediment chamber.
- 30 **Fan belt** – Check tension and adjust if necessary.
- Valve rockers** – Check and adjust clearances.
- Cylinders** – Check compression pressures.
- Accelerator** – Oil control linkage and pedal fulcrum.
- 12, 38 **Gearshift mechanism** – Lubricate. *Column change only.*
- 36, 39 **Gearbox** – Drain (when hot) and refill with fresh oil.
- 11, 40 **Clutch** – Check master cylinder fluid level and top up if necessary. Oil withdrawal lever jaw pin (slave cylinder to withdrawal lever). Check free movement at end of withdrawal lever (adjustable clutch only) and adjust if necessary. Inspect hydraulic pipe connections for leaks.
- Brake and clutch pedals** – Oil pivot bushes and linkage joints.
- 10 **Brakes** – Check master cylinder fluid level and top up if necessary. Inspect hydraulic pipe connections, pipe lines and unions for leaks. Test and adjust if necessary.
- 1, 6, 9 Lubricate handbrake cable and linkage.
- 16 **Steering unit** – Top up.
- Steering linkage and front suspension:-**
- 18, 23 Lubricate stub axle ball joint and swivel pin.
- 24, 27 Lubricate track rod joints.
- 19, 21 Lubricate suspension link bushes.
- 26 Lubricate idler lever bushes.
- 2, 41 **Propeller shaft** – Lubricate universal joints.
- 5, 7, 8 **Rear axle** – Drain (when hot) and refill with fresh oil. Clean breather hole.
- 35 **Hub bearings** – Check lubrication and end float.
- Body** – Oil door strikers, locks, hinges. bonnet and boot hinges and locks (including tailgate hinges and locks on Estate car). Check drain holes in lower edge of each door.
- 3, 4, 20 **General** – Check all bolts for tightness, with particular attention to propeller shaft
- 22, 24 couplings, shock absorbers, rear spring "U" bolts, bottom link fulcrum pin securing
- 27, 42 bolts, bolts securing front cross member to frame, exhaust system.

### **EVERY 24,000 MILES (38,400 KM.).**

In addition to the 12,000 miles (19,200 km.) service, the following should be carried out :-  
Clean the commutators of both the generator and starter motor, and inspect the brush gear.