

Lubricants

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Issue record sheet 1

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†Engine, †SU Carburettor dampers, Hand oiling points

BP

BP Super Viscostatic
BP Visco 2000
BP Visco-Nova
BP Visco Route
BP Visco Coranda
BP Pilote 2500
BP Pilote 3000
BP Strato

Castrol

Castrol GTX
Castrol GTX-2 Turbo Tested
Castrolite

Duckhams

Duckhams Hypergrade

Esso

UNIFLO +
Esso SUPERLUBE +

Mobil

Mobil Super

Shell

Shell Super Motor Oil (20W/50)
Shell Super Motor Oil (15W/50)
Shell Super Motor Oil (15W/40)
Shell Super Motor Oil (10W/40)
Shell Gemini

Silkolene

Chatsworth 20W/30

†Recommended engine oil grades for cars operating in low temperatures.

For constant operation in ambient temperatures of between 0°C and -23°C (32°F and -10°F) use a 10W/30 grade oil.

For constant operation in ambient temperatures of -23°C (-10°F) and below, use a 5W/20 grade oil.

*Torque converter transmission, *Steering pump

BP

BP Autran DXII

Lubricants

All cars except Bentley Mulsanne Turbo and Bentley Turbo R

Castrol

Castrol TQ Dexron® II

Duckhams

D-Matic ATF (Dexron II)

Esso

Esso ATF Dexron II

Gulf

Gulf Automatic Transmission Fluid (Dexron)

Mobil

Mobil ATF 220 (Dexron)

Shell

Shell Automatic Transmission Fluid Dexron II

Texaco

Texamatic Fluid 9226 (Dexron II)

*Also approved any Dexron Transmission Fluid.

Drive-shaft ball and trunnion joints (if fitted), Final drive unit, Rack and pinion steering unit

BP

BP Gear Oil EP 90
BP Multigear FE 80W/90
BP Multigear FE 85W/140

Castrol

Castrol Hypoy EP 90
Castrol Hypoy B EP 90
Castrol Hypoy C

Duckhams

Hypoid 90 S

Esso

Esso Gear Oil GX 85W/90
Esso Gear Oil GX 80W

Gulf

Gulf Multi Purpose Gear Lubricant 80W/90

Mobil

Mobilube HD 90

Shell

Shell Spirax 90 EP

Front and rear hubs, Drive-shaft outer universal joints (if fitted), Propeller shaft universal joints (if applicable)

BP
BP Energrease L2

Castrol
Castrol LM Grease

Duckhams
LB 10 Grease

Esso
Multi-purpose Grease

Gulf
Gulfcrown Grease No. 2 EP

Mobil
Mobilgrease MP

Shell
‡Shell Retinax A

‡First preference

Rear drive-shaft constant velocity joints (if fitted), Height control valve operating rod ball joints, Steering joints (if applicable), Parking brake linkage clevis and fulcrum pins

Rocol MTS 1000 Grease

Fuel tank drain plug

Rocol MV3
Rocol AS Spray

Parking brake inner cable

Midland Silicones MS44 Grease

Refrigeration compressor

Frigidaire 525 Viscosity Oil



Hydraulic Brakes and Automatic height control system

Castrol
Castrol Hydraulic System Mineral Oil

Power operated hood reservoir

BP
BP Energol HLP22

Castrol
Castrol Hyspin VG22

Esso
Esso Nuto H22

Mobil
Mobil DTE 11
Mobil DTE 12
Mobil DTE 13

Shell
Shell Tellus Oil 22
Shell Tellus Oil 23

Gulf
Gulf Hydrasil 22

Service schedule operations

Car protection

Before commencing to carry out a service schedule the car should be suitably protected as described in Chapter B.

	I	A	B	C	D	E	F	G	H
Car protection	E	E	E	E	E	E	E	E	E

Crankcase emission control system

- Clean the crankcase breather tube flame traps
- Clean the choke butterfly housing adapter

			*E	*E	*E				
			*E	*E	*E				

Exhaust emission control system

Exhaust gas recirculation system

- Remove and clean the E.G.R. valves and feed pipes
- Clean the E.G.R. orifices in the carburettor Tee piece
- Check the E.G.R. valves for correct operation

					*E				
					*E				
					*E				

Air injection system

- Check the condition and tension of the drive belt; adjust or renew as necessary
- Check the system for leaks and correct operation; renew any defective components

	E		*E	*E	*E				
				*E	*E				

Fuel evaporative emission control system

- Renew the evaporative loss control cannister
- Check the condition of all pipes, hoses, and connections; renew if necessary. Pressure test the fuel tank and evaporative loss control line; rectify any leaks
- Check the purge flow rate; rectify if necessary

					*E				
	E		*E	*E	*E				
	E			*E	*E				

Engine

- Change the engine oil
- Renew the engine oil filter
- Check the condition and tension of all drive belts; adjust or renew as necessary
- Renew the air filter element
- Check the oil level in the damper of each carburettor; top-up if necessary
- Clean the carburettor air valve pistons
- Check the float chamber depression; adjust if necessary
- Check for correct choke operation and choke stove pipe flow; rectify if necessary
- Check the choke fast-idle speed; adjust if necessary
- Renew the sparking plugs
- Lubricate the distributor (1981/82 model year cars only)
- Lubricate the accelerator linkage
- Check the torque tightness of the exhaust manifold setscrews
- Check the ignition timing; adjust if necessary
- Check the engine idle speed; adjust if necessary

	E	*E	*E	*E	*E				
		*E	*E	*E	*E				
	E	E	E	E	E				
			*E	*E	*E				
	E	P	*E	*E	*E				
				*E	*E				
	E		*E	*E	*E				
			*E	*E	*E				
	E		*E	*E	*E				
	E		*E	*E	*E				

Engine cooling system

- Check the anti-freeze concentration; correct if necessary
- Check the coolant level; top-up if necessary
- Check all coolant hose clips for tightness

		P	P	P	P				
		E	E	E	E				
	E	P	P	P	P				

	I	A	B	C	D	E	F	G	H
4 Examine the condition of all coolant hoses; renew as necessary			E	E	E				
5 Fit a new heater tap feed hose (irrespective of visual appearance)				E	E				
6 Renew the coolant						P	P	P	P
7 Reverse flush the cooling system							P	P	P
8 Remove foreign matter from the radiator and refrigeration condenser						P	P	P	P
9 Renew the thermostat				E	E				
Torque converter transmission									
1 Check the transmission fluid level; top-up if necessary	E	E							
2 Renew the transmission fluid			E	E	E				
3 Fit a new intake strainer				E	E				
4 Lubricate the gear range selector control rod		P	P	P	P				
Propeller shaft									
1 Lubricate the universal joints (not applicable to a rubber jointed propeller shaft)				E	E				
Final drive unit									
1 Check the final drive oil level; top-up if necessary		E	E						
2 Renew the final drive oil				E	E				
3 Check the condition of the drive-shaft joint covers; renew if necessary		P	P	P	P				
Steering									
1 Check the steering pump fluid level; top-up if necessary	P	E	E	E	E				
2 Lubricate the steering linkage ball joints (if applicable)			E	E	E				
3 Check the condition of the steering ball joint covers; renew if necessary			E	E	E				
4 Check the condition of the steering rack convoluted seals; renew if necessary. Ensure that the clips are tight			E	E	E				
Suspension									
1 Check the condition of the front ball joint covers; renew the ball joints if necessary			E	E	E				
2 Check the condition of the rear strut convoluted seals; renew if necessary		P	P	P	P				
3 Lubricate the height control valve ball joints				P	P				
Brake and hydraulic systems (see page D1-1)									
1 Check the oil level in the reservoirs; if necessary top-up with hydraulic system mineral oil		E	E	E	E				
2 Renew the hydraulic system mineral oil					E				
3 Check the condition of all brake pipes and hoses; renew as necessary		E	E	E	E				
4 Renew the accumulator to body, trailing arms to body, and sub-frame to body hoses					E				
5 Renew all flexible hoses								E	E
6 Check the brake disc pads for wear; renew if necessary		E	E	E	E				
7 Check the condition of the brake caliper dust excluders when changing brake pads; renew if necessary		E	E	E	E				
8 Renew the brake caliper seals									E

† Engine, Hand oiling points

BP
BP Super Viscostatic
BP Visco 2000

Castrol
Castrol GTX
Castrol GTX-2 Turbo Tested

Duckhams
Duckhams Hypergrade

Esso
Esso SUPERLUBE +

Mobil
Mobil Super

Shell
Shell Super Motor Oil (20W/50)
Shell Super Motor Oil (15W/50)
Shell Super Motor Oil (15W/40)
Shell Gemini

† Recommended engine oil grades for cars operating in low temperatures.

For constant operation in ambient temperatures of between 0°C and -23°C (32°F and -10°F) use a 10W/30 grade oil.

For constant operation in ambient temperatures of -23°C (-10°F) and below, use a 5W/20 grade oil.

***Torque converter transmission, *Steering pump**

BP
BP Autran DX II

Castrol
Castrol TQ Dextron[®] II

Duckhams
D-Matic ATF (Dexron II)

Esso
Esso ATF (Dexron II)

Gulf
Gulf Automatic Transmission Fluid Dexron

Mobil
Mobil ATF 220 (Dexron)

Lubricants**Bentley Mulsanne Turbo and Bentley Turbo R**

Shell
Shell Automatic Transmission Fluid Dexron II

Texaco
Texamatic Fluid 9226 (Dexron II)

*Also approved any Dexron Transmission Fluid

Final drive unit, Rack and pinion steering unit

BP
BP Gear Oil 90 EP
BP Multigear FE 80W/90
BP Multigear FE 85W/140

Castrol
Castrol Hypoy EP 90
Castrol Hypoy B EP 90
Castrol Hypoy C

Duckhams
Hypoid 90 S

Esso
Esso Gear Oil GX 85W/90
Esso Gear Oil GX 80W

Gulf
Gulf Multi Purpose Gear Lubricant 80W/90

Mobil
Mobilube HD 90

Shell
Shell Spirax 90 EP

Front and rear hubs, Propeller shaft universal joints

BP
BP Energrease L2

Castrol
Castrol LM Grease

Duckhams
LB 10 grease

Esso
Multi-purpose Grease

Gulf
Gulfcrown Grease No. 2 EP

TSD 4400

D1/1-2

Mobil
Mobilgrease MP

Shell
‡Shell Retinax A

‡First preference

**Rear drive-shaft constant velocity joints,
Height control valve operating rod ball joints,
Parking brake linkage clevis and fulcrum pins**

Rocol MTS 1000 Grease

Fuel tank drain plug

Rocol MV3
Rocol AS Spray

Parking brake inner cable

Midlands Silicones MS44 Grease

Refrigeration compressor

Frigidaire 525 Viscosity Oil



**Hydraulic brakes and Automatic
height control system**

Castrol
Castrol Hydraulic System Mineral Oil

† Engine, Hand oiling points

BP
BP Super Viscostatic 10W/40

Castrol
Castrol GTX (USA)
Castrol XLR (Canada)

Duckhams
Duckhams Hypergrade

Exxon/Imperial
UNIFLO

Mobil
Mobil Super

Shell
Fire and Ice (USA)
Super Plus (Canada)

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For constant operation in ambient temperatures of -23°C (-10°F) and below, use a 5W/20 grade oil.

***Torque converter transmission, *Steering pump**

BP
BP Autran DX II

Castrol
Castrol TQ Dexron * II

Duckhams
D-Matic ATF (Dexron II)

Exxon/Imperial
Esso ATF Dexron II

Gulf
Gulf Automatic Transmission Fluid Dexron

Mobil
Mobil ATF 220 (Dexron)

Shell
Shell Donax T6 ATF Dexron

Lubricants

All cars except Bentley Mulsanne Turbo and Bentley Turbo R

Texaco
Texamatic Fluid 9226 (Dexron II)

*Also approved any Dexron Transmission Fluid

Final drive unit, Rack and pinion steering unit

BP
BP Gear Oil 90 EP
BP Multigear FE 80W/90
BP Multigear FE 85W/140

Castrol
Castrol Hypoy 80W/90
Castrol Hypoy C 80W/90

Duckhams
Duckhams Hypoid Gear Oil 80W/90 EP

Exxon/Imperial
Esso Gear Oil GX 85W/140
Esso Gear Oil GX 85W/90
Esso gear Oil GX 80W/90
Esso Gear Oil GX 80W
Esso Gear Oil GX 90W

Gulf
Gulf Multi Purpose Lubricant 80W/90

Mobil
Mobilube HD 90

Shell
Shell Spirax 90 EP

Front and rear hubs, Propeller shaft universal joints (if applicable)

BP
BP Energrease L2

Castrol
Castrol MP Grease
Castrol LM Grease
Castrol Wheel Bearing Grease (Canada)

Duckhams
Duckhams LB 10

Exxon/Imperial
Ronex MP
Esso Unitol

Gulf
Gulfcrown Grease No. 2 EP

Mobil
Mobilgrease MP

Shell
Shell Darina AX

**Rear drive-shaft constant velocity joints,
Height control valve operating rod ball joints,
Steering joints, (if applicable), Parking brake
linkage clevis and fulcrum pins**

Rocol MTS 1000 Grease

Fuel tank drain plug

Rocol MV3
Rocol AS Spray

Parking brake inner cable

Midlands Silicones MS 44 Grease

Refrigeration compressor

Frigidaire 525 Viscosity Oil



**Hydraulic brakes and Automatic
height control system**

Castrol
Castrol Hydraulic System Mineral Oil

Power operated hood reservoir

BP
BP Energol HLP 22

Esso
Esso Nuto H22

Mobil
Mobil DTE 11
Mobil DTE 12
Mobil DTE 13

Shell
Shell Tellus Oil 22
Shell Tellus Oil 23

Gulf
Gulf Harmony 22 AW

Section D3

Lubricants

Cars for countries other than U.S.A. and Canada from serial number 50 001

†Engine, †SU Carburettor Dampers, Hand Oiling Points

BP
BP Super Viscostatic
BP Visco Route
BP Visco Coranda
BP Pilote 2500
BP Pilote 3000
BP Strato

Castrol
Castrol GTX
Castrol GTX-2 Turbo Tested
Castrolite

Duckhams
Duckhams 'Q' Motor Oil

Esso
UNIFLO
Esso SUPERLUBE

Mobil
Mobil Super

Shell
Shell Super Motor Oil (20W/50)
Shell Super Motor Oil (15W/50)
Shell Super Motor Oil (15W/40)
Shell Super Motor Oil (10W/40)

†Recommended engine oil grades for cars operating in low temperatures.

For constant operation in ambient temperatures of between 0°C. and -23°C. (32°F. and -10°F.), use a 10W/30 grade oil.

For constant operation in ambient temperatures of -23°C. (-10°F.) and below, use a 5W/20 grade oil.

*Torque Converter Transmission, *Steering Pump

BP
BP Autran DX II

Castrol
Castrol TQ Dexron © II

Duckhams
D-Matic ATF (Dexron II)

Esso
Esso Automatic Transmission Fluid (Dexron)

Mobil
Mobil ATF 220 (Dexron)

Shell
Shell Automatic Transmission Fluid Dexron II

Texaco
Texamatic Fluid 9226 (Dexron II)

*Also approved any Dexron Transmission Fluid.

Final Drive Unit, Drive-shaft Ball and Trunnion Joints, Rack and Pinion Steering Unit

BP
BP Gear Oil FE 80W/90 EP
BP Gear Oil FE 85W/140 EP
BP Gear Oil 90 EP

Castrol
Castrol Hypoy EP 90
Castrol Hypoy B EP 90
Castrol Hypoy C

Duckhams
Hypoid 90 S

Esso
Esso Gear Oil GX 80W/90
Esso Gear Oil GX 85W/140

Mobil
Mobilube HD 90

Shell
Shell Spirax 90 EP

Front and Rear Hubs, Drive-shaft Outer Universal Joints, Propeller Shaft Universal Joints

BP
BP Energrease L2

Castrol
Castrol LM (

Duckhams
LB 10 Grease

Esso
Multi-purpose

D3 - 2

Mobil
Mobilgrease MP

Shell
‡Shell Retinax A

‡First preference

**Height Control Valve Operating Rod Ball Joints,
Steering Joints, Parking Brake Linkage Clevis and
Fulcrum Pins**

Rocol MTS 1000 Grease

Fuel tank drain plug

Rocol MV3
Rocol AS Spray

Parking Brake Inner Cable and Pulley Grooves

Midland Silicones MS44 Grease

Refrigeration compressor

Frigidaire 525 Viscosity Oil



**Hydraulic Brakes and Automatic
Height Control System**

BP
BP Hydraulic LHM

Castrol
‡Castrol Hydraulic System Mineral Oil

Mobil
Mobil Fluid LHM

Shell
Shell LHM Fluid (S.8214)

Hydraulic System Mineral (LHM) is also supplied by
Esso, Total, Lockheed, Antar, Agip, Cofran, Elf, Igol,
Motul, and Stop.

‡First preference

Power Operated Hood Reservoir

BP
BP HLP 22

Castrol
Castrol Hyspin VG22

Esso
Esso Nuto H22

Mobil
Mobil DTE 11
Mobil DTE 13

Shell
Shell Tellus Oil 22
Shell Tellus Oil 23

†Engine. †Carburettor Dampers, Hand Oiling Points

BP
BP Super Viscostatic 10W/40

Castrol
Castrol GTX

Duckhams
Duckhams 'Q' Motor Oil

Exxon/Imperial
UNIFLO

Mobil
Mobil Super

Shell
Fire and Ice (U.S.A.)
Super Plus (Canada)

†Recommended engine oil grades for cars operating in low temperatures.

For constant operation in ambient temperatures of between 0°C. and -23°C. (32°F. and -10°F.), use a 10W/30 grade oil.

For constant operation in ambient temperatures of -23°C. (-10°F.) and below, use a 5W/20 grade oil

***Torque Converter Transmission. *Steering Pump**

BP
BP Autran DX II

Castrol
Castrol TQ Dexron ⓂII

Exxon/Imperial
Esso Automatic Transmission Fluid (Dexron II)

Mobil
Mobil ATF 220 (Dexron)

Shell
Shell Donax T6
ATF Dexron

Texaco
Texamatic Fluid 9226 (Dexron II)

*Also approved any Dexron Transmission Fluid

Section D4

Lubricants

Cars for U.S.A. and Canada from serial number 50 001

Final Drive Unit, Drive-shaft Ball and Trunion Joints, Rack and Pinion Steering Unit

BP
BP Gear Oil 90 EP
BP Gear Oil FE 80W/90 EP
BP Gear Oil FE 85W/140 EP

Castrol
Castrol Hypoy 80W/90
Castrol Hypoy C80W/90

Exxon/Imperial
Exxon Gear Oil GX 80W/90
Exxon Gear Oil GX 85W/140
Exxon Gear Oil GX 90

Mobil
Mobilube HD 90

Shell
Shell Spirax 90 EP

Front and Rear Hubs, Drive-shaft Outer Universal Joints, Propeller Shaft Universal Joints

BP
BP Energrease 2

Castrol
Castrol MP Grease
Castrol LM Grease

Exxon/Imperial
Ronex MP Grease
Esso Unitol

Mobil
Mobilgrease MP

Shell
Shell Darina AX

Height Control Valve Operating Rod Ball Joints, Steering Joints, Parking Brake Linkage Clevis and Fulcrum Pins

Rocol MTS 1000 Grease

Fuel Tank Drain Plug

Rocol MV3
Rocol AS Spray

D4 - 2

Parking Brake Inner Cable and Pulley Grooves

Midlands Silicones MS 44 Grease

Refrigeration Compressor

Frigidaire 525 Viscosity Oil

**Hydraulic Brakes and Automatic Height Control System****BP**

BP Hydraulic LHM

Castrol

‡Castrol Hydraulic System Mineral Oil

Mobil

Mobil Fluid LHM

Shell

Shell LHM Fluid (S 8214)

Hydraulic System Mineral Oil (LHM) is also supplied by Esso, Total, Lockheed, Antar, Agig, Cofran, Elf, Igol, Motul, and Stop.

‡First preference

Power Operated Hood Reservoir**BP**

BP HLP 22

Esso

Esso Nuto H22

Mobil

Mobil DTE 11

Mobil 13

Shell

Shell Tellus Oil 22

Shell Tellus Oil 23