

## 14 - LUBRICATION AND MAINTENANCE

CAPACITY OF THE VARIOUS UNITS	195
OIL FILTER	195
AIR FILTER	195
BODYWORK AND UPHOLSTERY MAINTENANCE	196
LUBRICATION TABLE :	
MECHANICAL UNITS	197
BODYWORK	199

The various units of the vehicle must be lubricated accordingly with the indications hereafter, using exclusively the "ESSO MOTOR OIL, ESSO MULTIPURPOSE GREASE, ESSOLUBE VT, ESSO OLEOFLUID from the ESSO STANDARD Company.

## CAPACITY OF THE DIFFERENT UNITS

OIL					WATER	PETROL	Brake Fluid
Engine	Engine oil sump	Gearbox	Rear axle	Front shock absorbers (two)	Water circuit total capacity	Petrol Tank	Total Cap.
litres	4	1.250	1.400	0.700	7.8	8.50	0.660
Pints	7	2.2	2.5	1.25	14.00	11 Gal	1.15

## LUBRICATION RECOMMENDATION

Engine	Summertime ESSO MOTOR OIL SAE 40 Deep frost period : ESSO MOTOR OIL SAE 20 or alternately All seasons : ESSO EXTRA MOTOR OIL 20 W 30/40
Clutch thrust	Engine Oil
Gear box	ESSO MOTOR OIL SAE 40
Steering gear	MULTIPURPOSE GREASE H
Rear axle	ESSOLUBE VT Only in those countries where ESSOLUBE VT is not yet being distributed, and after flushing the rear axle, use ESSO GEAR OIL GP 90.
Front hubs	ESSO MULTIPURPOSE GREASE H
Shock absorbers	ESSO OLEOFLUID 40 EP
Pressure lubrication (mechanical unit)	ESSO MULTIPURPOSE GREASE H
Oil can lubrication (generator, bodywork)	ENGINE OIL
Running in - super lube	ESSO UPPER MOTOR LUBRICANT
Anti frost	ATLAS PERMA GUARD
Maintenance products	ATLAS GLASS GLEEN, EXAGON - PAIC etc..

## Oil filter

The oil filter, on the L.H. side of the engine, must be removed and cleaned at the first check and with each oil change.

## Air filter

The air filter getting clogged, through lack of cleaning, may cause a loss of engine power and an increase in petrol consumption, up to 65 % in some cases.

## BODYWORK

### Washing

Washing the body is a very simple operation which, however, wants a few precaution to be taken :

- At first, wet and take down the mud by an abundant showering of the car.
- Have two sets of sponges and skins : one for the body panels and the other for the parts of the car which might have remained somewhat greasy.
- Whipe the car with a clean sponge, then dry it with a sweden skin, clean, rinsed out and wrung several times.

### Polish

All polish products available on the market may be used for our synthetical lackers.

### Doors

Check that the orifices for water draining at the bottom of the doors are not clogged.

### Sunroof

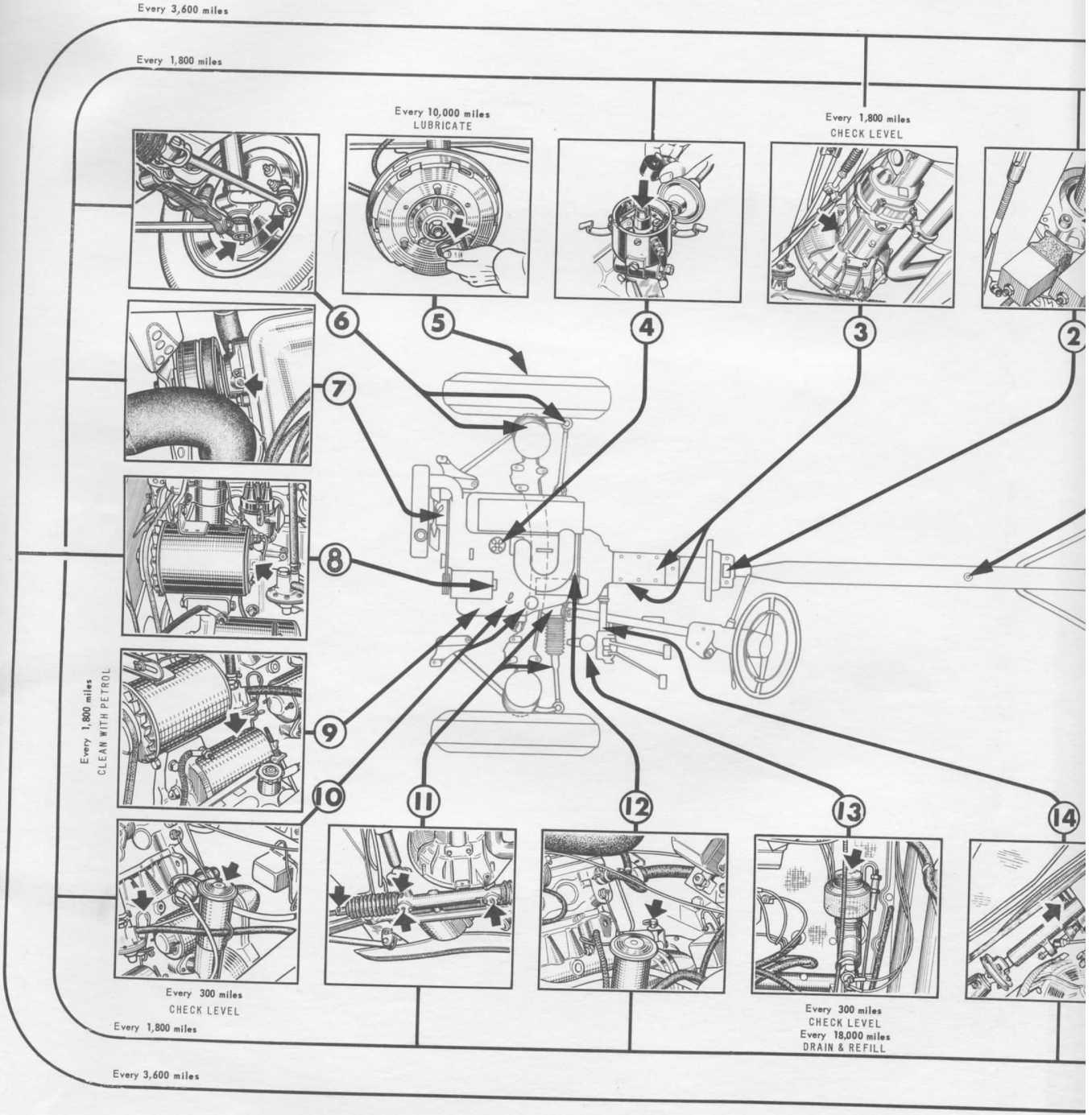
The four water draining rubber tubes must be kept free from vegetal rubbish. Eventually blow them.

### Glasses

May be cleaned by spraying.  
Dry with a dry clean cloth.  
Clean the windscreen wiper brushes.

# MECHANICAL ASSEMBLY

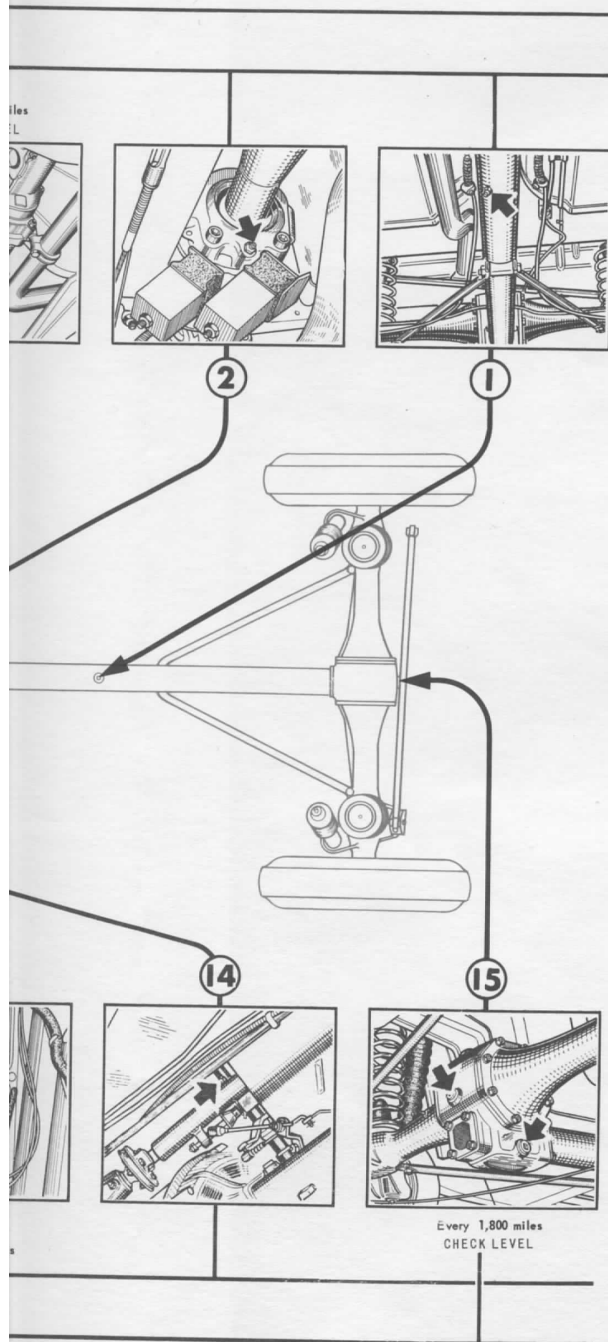
## PEUGEOT





# ASSEMBLY LUBRICATION CHART

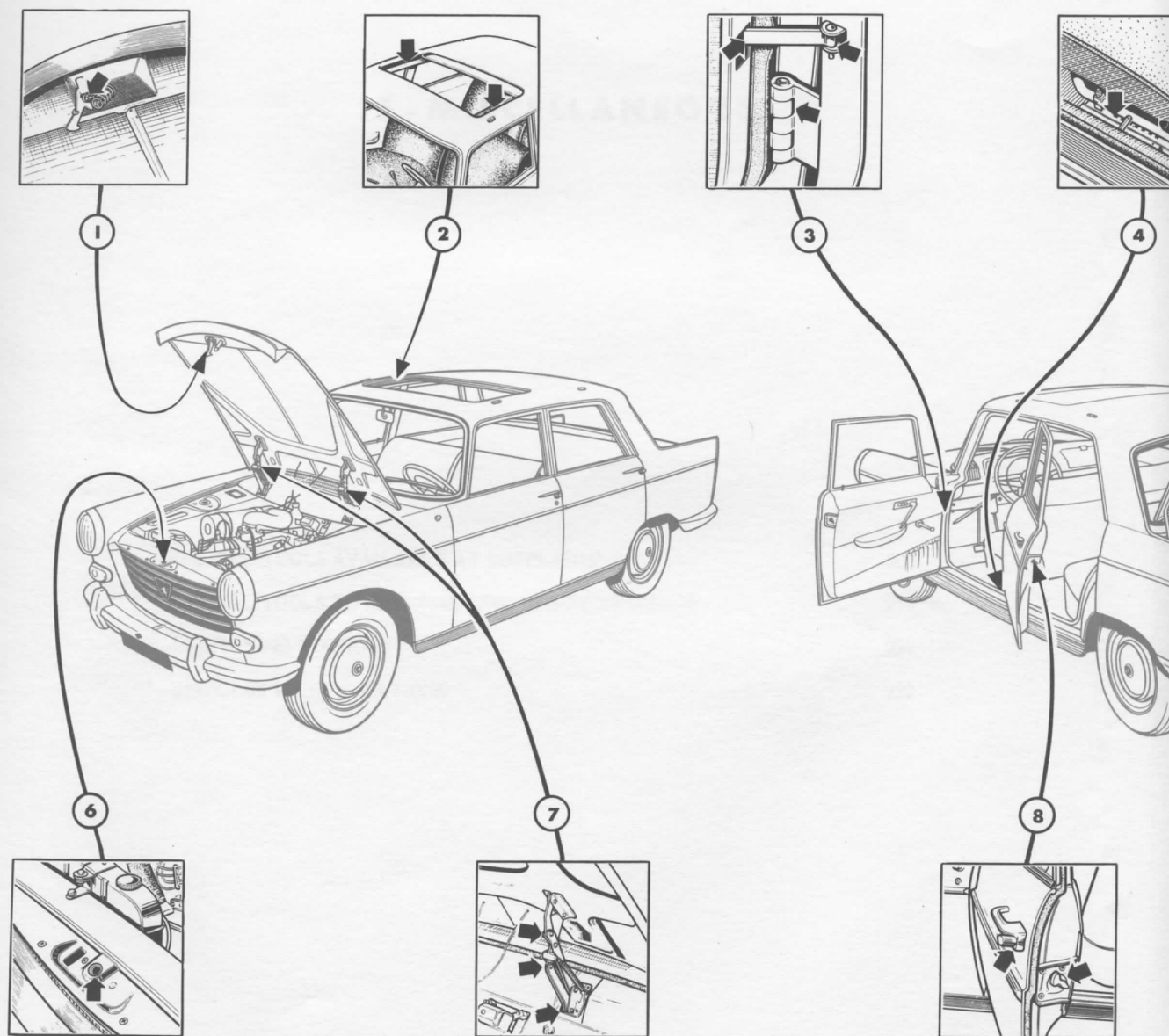
## GEOT 404



LUBRICATION TABLE			
Operation & lubricant to use		Units	Fig.
<b>Every 300 miles</b>			
CHECK LEVEL	ESSO OIL (1) LOCKHEED HD 31 or STOP HD 65	Lower oil sump (dipstick)	10
		Braking circuit reservoir	13
<b>Every 1,800 miles</b>			
LUBRICATE WITH ESSO MULTIPURPOSE GREASE H		King pins (LH and RH)	6
		Steering levers ball heads (Left and Right)	6
		Rack tappets and ball head	11
		Steering gear housing (moderately)	11
		Clutch control connecting rod	14
		Torque tube ball joint	2
		Torque tube centre bearing	1
LUBRICATE WITH AN OIL CAN AND ENGINE OIL		Declutching thrust	12
		Distributor (felt under rotor)	4
		Water pump (one nipple)	7
		Various joints and controls	
DRAIN AND REFILL	ESSO OIL (1)	Oil sump	10
CLEAN WITH PETROL		Oil filter	9
CHECK LEVEL	ESSO MOTOR OIL SAE 40 ESSO GEAR OIL VT (2)	Gear box	3
		Rear axle	15
<b>Every 3,600 miles</b>			
LUBRICATION WITH ENGINE OIL		Generator (rear bearing)	8
DRAIN AND REFILL	ESSO MOTOR OIL SAE 40 ESSO GEAR OIL VT (2)	Gear box	3
		Rear axle	15
<b>Every 10,000 miles</b>			
LUBRICATE WITH ESSO MULTIPURPOSE GREASE H		Front hub cap	5
<b>Every 18,000 miles</b>			
DRAIN AND REFILL WITH LOCKHEED HD 31 or STOP HD 65		Braking reservoir and lines	13
<p>(1) In all seasons, use ESSO EXTRA MOTOR OIL 20W / 30/ 40 or else : - In summertime ESSO MOTOR OIL SAE 40. - In deep frost periods : ESSO MOTOR OIL SAE 20.</p> <p>(2) In no case should the rear axle special oil be mixed up with another lubricant. In case of doubt arising about the quality of the oils used, carefully drain the rear axle and flush it with a 50/50 mixture of benzol and alcohol before refilling with the recommended lubricant, ESSO GEAR OIL GP 90</p>			
CAPACITIES			
ENGINE		4 litres (7 pints)	
GEARBOX		1,250 l (2 pints)	
REAR AXLE		1,400 l (2 1/2 pints)	
BRAKING & RESERVOIR LINES		0,650 l (± 1 pint)	
FRONT HUBS CAPS		Maximum 15 grs	

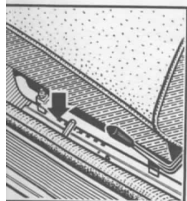
# BODYWORK LUBRICATION

## PEUGEOT 404

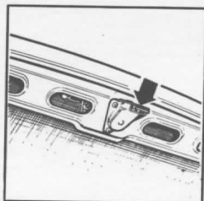


# LUBRICATION CHART

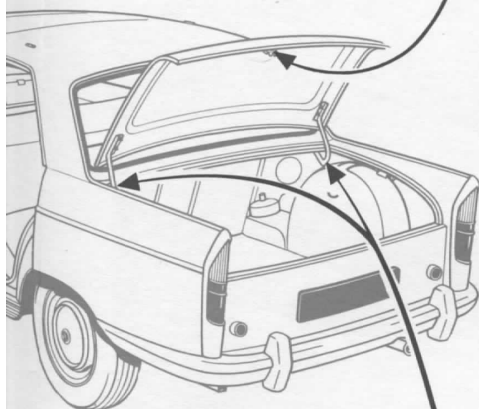
## 404



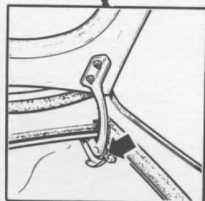
4



5



9



### BODYWORK LUBRICATION WITH ESSO HANDY OIL

Figures	Units	Number of places to be lubricated
EVERY 1,800 miles		
INSIDE THE CAR		
2	Sunroof slides	2
3	Door hinges	8
3	Door arresters	4
4	Front seat slides	4
OUTSIDE THE CAR		
8	Door handles	4
8	Door locking cams	4
UNDER BONNET		
1	Bonnet catch pin	1
6	Bonnet lock casing	1
7	Bonnet safety loaded hinge	6
	Various controls sheathes	
	Various joints	
IN LUGGAGE TRUNK		
5	Trunk latch-bolt	1
10	Trunk opening hinges	2

To lubricate the sheathes use a brush oiled with  
ESSO HANDY OIL

## **14 - LUBRICATION AND MAINTENANCE**

Lubrication chart - All types of 404s

Page

145

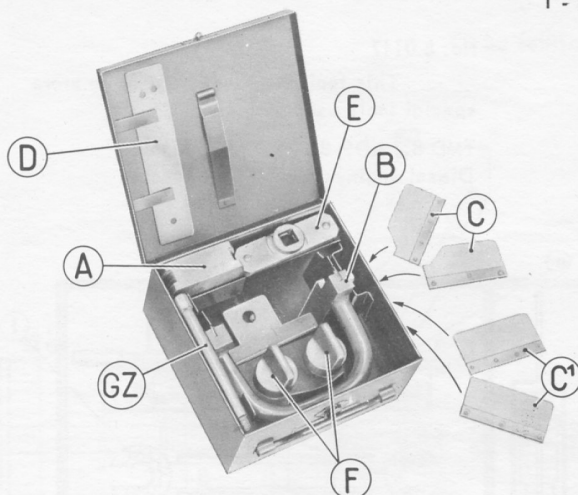
TYPE OF CAR	ENGINE SUMP		GERABOX		REAR AXLE		INJECTION PUMP	
	Capacity Litres/Pints	Grade	Capacity	Grade	Capacity Litres/Pints	Grade	Capacity	Grade
404 w/ carburettor engine (with 95.25 mm differential)	4 7	All seasons : ESSO EXTRA MOTOR OIL SAE 20 W/30/40  (Every 5,000 km or 3,000 miles)	All types : 1.250 litre or 2 1/4 pints	ALL TYPES - ALL SEASONS : ESSO EXTRA MOTOR OIL SAE 20 W/30/40 (Every 10,000 km or 6,000 miles)	1.4 2.5	ALL TYPES - ALL SEASONS ESSO GEAR OIL VT (Every 10,000 km or 6,000 miles)	0.400 li- tre or 0.7 pint Every 18 months or 50,000 km (30,000 miles)	
404 w/ carburettor engine 404 SL (with 101.6mm differential)	4 7				1.7 3			
404 C	4 7	Summer : ESSO ESTOR HDX 30 Extended freezing periods : ESSO ESTOR HDX 20			1.6 2.8			
404 L	4 7				1.6 2.8			
404 U6	4 7				1.4 2.5			
404 KF	4 7				1.6 2.8			
404 C.KF	4 7				1.7 3			
404 KF 2 404 C.KF 2 (with reinforced differential case)	4 7				1.4 2.5			
404 DA	4 7				1.6 2.8			
404 D	4 7				1.7 3			
404 LD (XD 85)	4 7				1.4 2.5			
As from serial number : 404 LD (XD 88) : 4.980.001	4 7				1.7 3			
404 U6D	4 7							



## **15 - MISCELLANEOUS**

### **SPECIAL TOOLS**

## 1 - ENGINE



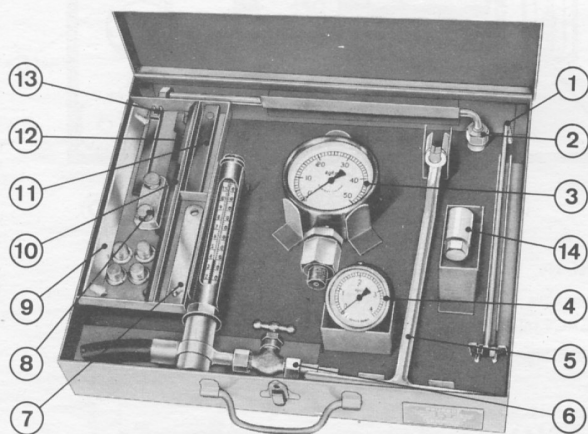
## No. 8.0110 Z

Tool kit for :  
404 petrol engines  
TMD - XDP - XD Diesel engines

Including :

- A - Block- Diesel engine rear bearing packing installing
- B - Jig, lateral seal positioning \*
- C - Spare shims, Diesel engines
- C1- Spare shims, 404 engines
- D - 0.5 mm thick feeler gauge \*
- E - Pin adapter, Diesel engines
- F - Cylinder liner positioning screws, Diesel engines
- GZ - Dial indicator support (with 7-mm dia., 100-pitch end firing) \*

\* Used both for Diesel and 404 engines



## No. 8.0112 Z

Tool kit, petrol injection engine

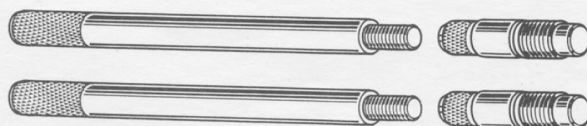
- |                                      |            |
|--------------------------------------|------------|
| 1 - Fork                             | 8.0112 B/E |
| 2 - Connector, injector *            | 8.0113 B   |
| 3 - Pressure gauge, injector *       | 8.0113 A   |
| 4 - Pressure gauge, fuel supply pump | 8.0112 J   |
| 5 - Wrench                           | 8.0112 H   |
| 6 - Thermometer                      | 8.0112 C   |
| 7 - Shim, adjusting                  | 8.0112 A   |
| 8 - Puller                           | 8.0112 K   |
| 9 - Gauge, setting                   | 8.0112 D   |
| 10 - Gauge, setting, KF 2            | 8.0112 L   |
| 11 - Block, adjusting, KF 2          | 8.0112 M   |
| 12 - Gauge                           | 8.0112 N   |
| 13 - Wrench, holding                 | 8.0112 P   |
| 14 - Wrench, pressure valve bleeding | 8.0112 G   |

\* To be ordered separately



## No. 8.0114

Tool set, including 2 cylinder head guide pins for XDP & XD engines.



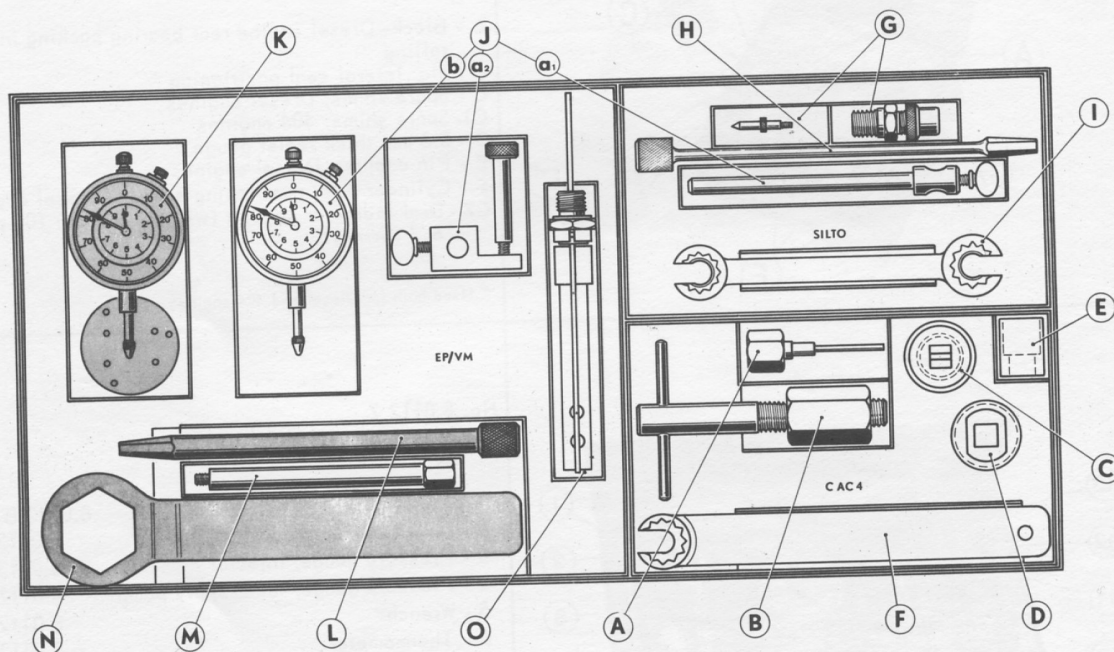
## No. 8.0115

Tool set, including 2 cylinder head guide pins for 404 petrol engines

## No. 8.0117

This tool chest may be used to store special tools used with :

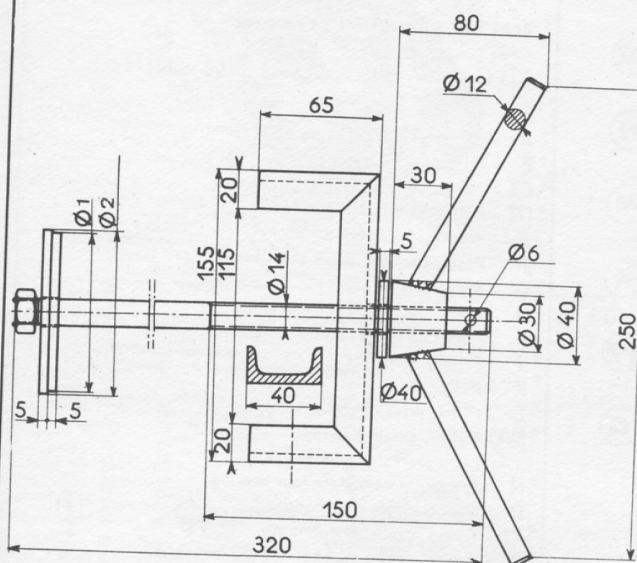
TMD 85, XDP 85 - XD 85 & XD 88  
Diesel engines



- A - Tube, control**, PM/CAC4 injection pump setting - PM Ref. No. 18-2-001425-0.  
**B - Puller, valve**, PM/CAC4 injection pump intake valve removing - PM Ref. No. 18-2-146533-0.  
**C - Socket**, hydraulic head castellated upper connector, PM/CAC4 injection pump - PM Ref. No. 18-2-146532-0.  
**D - Socket**, 8.0111 AZ, PM and BOSCH injector seat nut tightening.  
**E - Socket**, 8.0111 B, PM injector-holder cap nut tightening.  
**F - Wrench**, 8.0109, coupling tightening, PM/CAC4 equipment injector pipes.  
**G - Dial indicator finger extension and support**, 6.0161, SILTO injection pump setting.  
**H - Wrench, extension**, 6.0162, hexagonal, male 8-mm, SILTO injection pump setting.  
**I - Wrench**, 6.0164, injector pipe coupling tightening, PM/SILTO equipment.  
**J - Kit**, 8.0504, gearbox-to-rear axle engagement clearance checking, D3A, D4A, D4B cars : a)Support a1-Intermediate section  
 b)Dial indicator a2-End section  
**K - Dial indicator**, 8.0117 A, R. BOSCH EP/VM injection pump setting.  
**L - Wrench, extension**, 8.0117 D, hexagonal, 6-mm R. BOSCH EP/VM injection pump setting.  
**M - Support bracket**, 8.0110 GZ, dial indicator-to-Diesel engine attaching.  
**N - Wrench**, 8.0117 E, 37,5 mm, crankshaft turning.  
**O - Finger extension**, 6.0168, R. BOSCH EP/VM injection pump setting.

**NOTE** - Missing components may be ordered separately, if required.

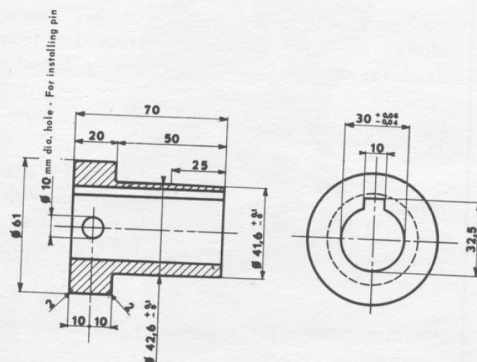




Puller, cylinder liner

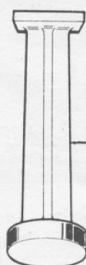
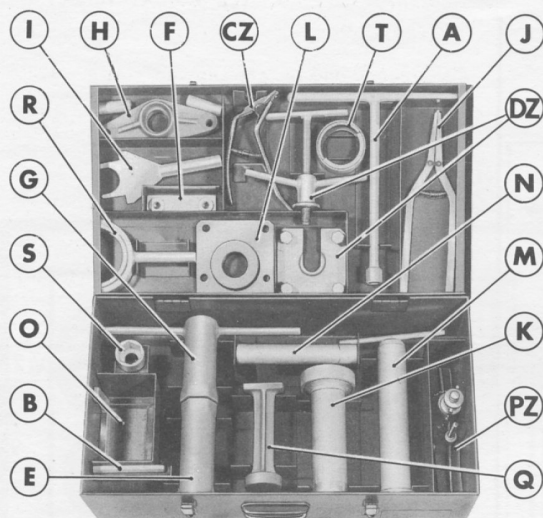
Lower plate :

	$\phi$ 1 (mm)	$\phi$ 2 (mm)
404 petrol engine	83,5	88
XD 85	84.5	88
XD 88	87.5	92

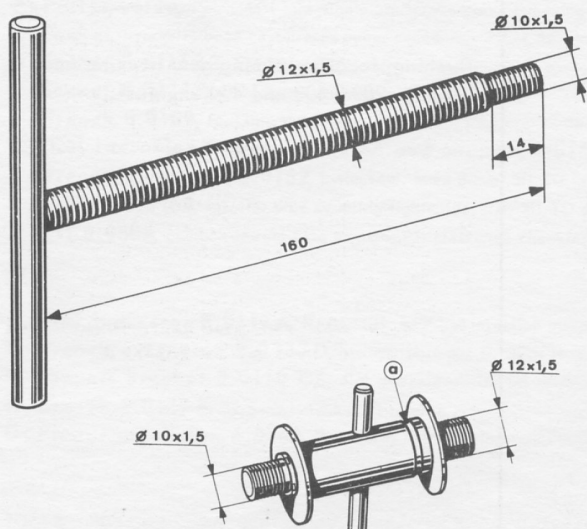


Bushing, locating, timing gear housing (may be used for 203 - 403 and 404 enginesL

## 3 - GEARBOX



QZ gauge  
53 ± .2 mm dia.  
instead of  
61 ± .2 mm dia.



No. 8.0301 W

Tool kit, C2 and C3 gearboxes

203 C - 403 - 404 and associated vehicles

- \* A - Wrench, clutch housing disassembling
- \* B - Fitting, universal joint
- \* CZ - Puller, speedometer drive (pliers)
- \* DZ - Puller, rear housing
- E - Wrench, 4th speed pinion nut
- F - Plate, backing, drive shaft bearing
- \* G - Wrench, drive shaft nut
- H - Plate, backing, centre bearing
- I - Fork (3.5 mm thick)
- \* J - Pliers, snap-ring
- \* K - Puller, drive shaft bearing
- \* L - Plate, drive shaft locating
- \* M - Puller, centre bearing  
(with protector tube inside)
- \* N - Spacer, intermediate rear bearing
- O - Gauge, drive shaft bearing
- \* PZ - Gauge, depth, rear bearing
- \* QZ - Gauge, depth, rear bearing (53-mm dia.)
- R - Gauge, 2nd-3rd speed synchronizer (35.6 mm)
- S - Fitting, special (32 mm across flats)
- T - Shell, 4th speed pinion puller

NOTE. - Pliers, 8.0301 Cz, may be supplied to replace 8.0301 C puller.

## DZ puller screw

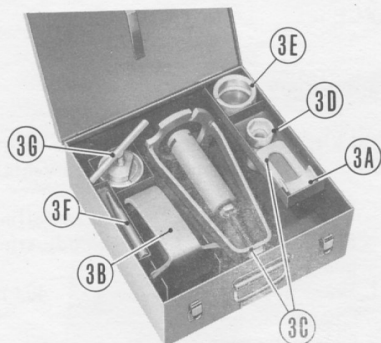
The threaded section of this screw includes a 10-mm dia. end section and may be used for all types of gearboxes (C2 and C3).

## PZ gauge attachment screw

This twin-thread screw may be used to attach the depth gauge on mainshafts with 10-mm or 12-mm dia. internal treads and may therefore be used with type C2 and C3 gearboxes.

This screw incorporates groove a used for attachment to the chain of the depth gauge.

\* Tools used for both C2 and C3 gearboxes



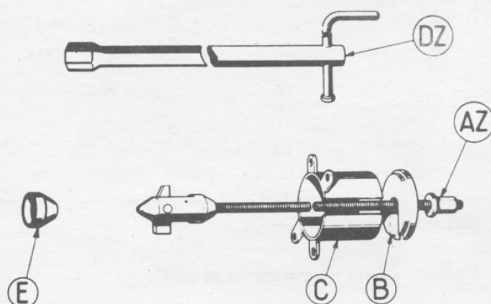
## No. 8.0302 Z

Additional tool kit used with kit 8.0301 W for C3 geraboxes

403 B - 404 and associated vehicles

- 3 A - Fork, locking, 1st speed synchronizer
- 3 B - Gauge, 2nd speed synchronizer
- 3 C - Puller, drive shaft
- 3 D - Wrench, socket (32 mm a/c flats)
- 3 E - Shells, centre bearing puller
- 3 F - Tool, nut staking
- 3 G - Puller, intermediate shaft front bearing

## 4 - POWER DRIVE

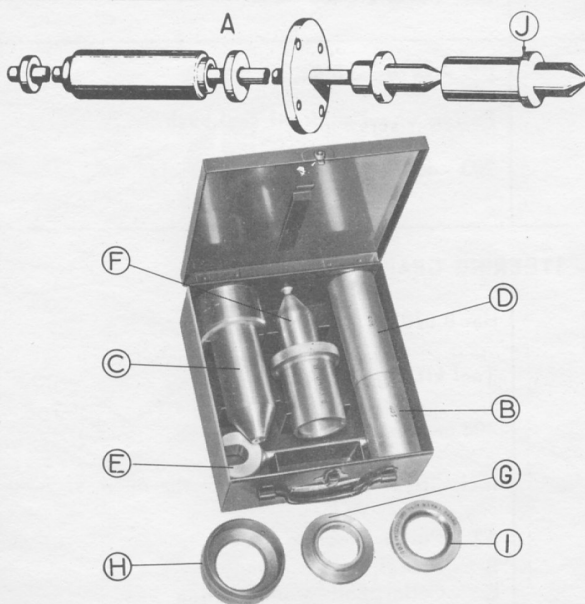


## No. 8.0402 Z

Puller, propeller shaft centre bearing

203 - 403 - 404 and associated vehicles

- AZ - Body, puller (1.20 m. long threaded rod)
- B - Washer, backing
- C - Spacer
- DZ - Wrench, special ("D" wrench with 20 cm extension)
- E - Cap, centering, for 37-mm dia. shaft.

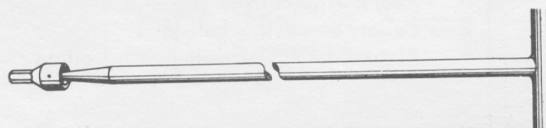


## No. 8.0403 X

Impact pusher, propeller shaft centre bearing

203 - 403 - 404 and associated vehicles

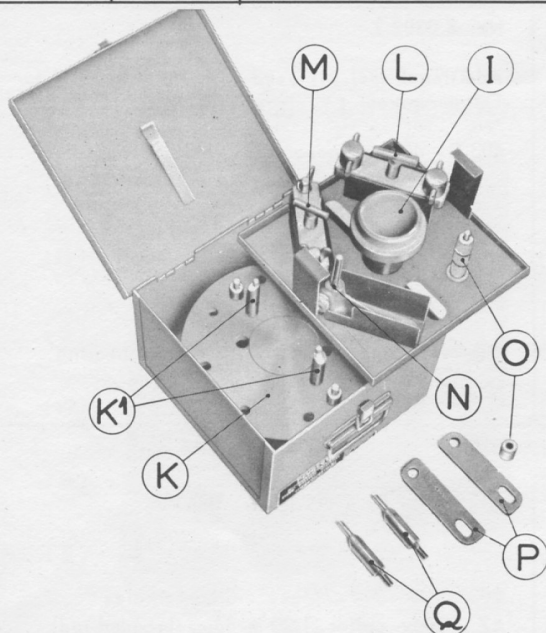
- A - Impact pusher
- B - Spacer, 203 cars
- C - Sleeve, 404, 403 and associated vehicles, and 403 with 37-mm dia. shaft
- D - Spacer, 403 cars w/31 mm dia. shaft
- E - Spacer, 403 cars w/37 mm dia. shaft
- F - Sleeve, 403 associated vehicles w/31 mm dia. shaft
- G - Spacer, 404 cars w/31 mm dia. shaft
- H - Spacer, 404 cars w/37 mm dia. shaft, except 404s w/larger dia. differential
- I - Spacer, 403 associated vehicles w/sealed housing type rear axle
- J - Sleeve, 404 associated vehicles (to be installed on impact pusher 8.0403 A.



## No. 8.0406

Wrench, thrust sphere bolt

203 - 403 - 404 and associated vehicles

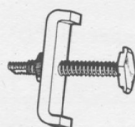


## 5 - REAR AXLE

No. 8.0505 Z

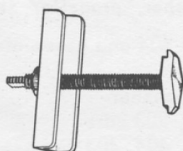
Tool kit, sealed housing type rear axle  
203 C - 403 - 404 and associated vehicles

- I - Pusher, bearing outer race installing
- K - Base, worm wheel position adjusting, equipped with K1 adjusting pins
- K1 - Pins, adjusting, 203 C - 403 - 404 rear axle
- L - Clamp, base locking
- M - Clamp, bearing backing
- N - Gauge, depth
- O - Spacers (4)
- P - Plates, front stop holding (2)
- Q - Pins, adjusting, 403 and 404 associated vehicles with sealed housing type rear axle



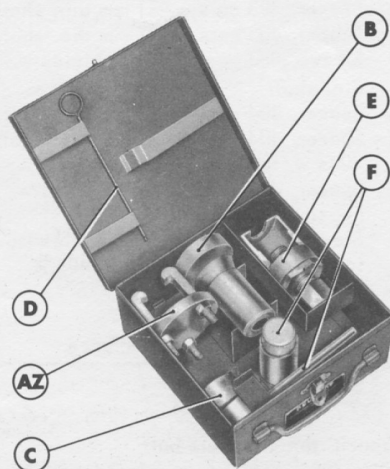
No. 8.0513

Puller, wheel shaft oil seal bush  
203, model 2 - 403 - 404



No. 8.0514

Puller, wheel shaft oil seal bush  
203 - 403 - 404 associated vehicles



## 7 - STEERING GEAR

No. 8.0703 X

Tool kit, steering gear  
404 and associated vehicles

Including :

- AZ - Puller, steering wheel
- B - Socket, ball-joint nut
- C - Collar, ball-joint adjusting
- D - Rod, ball-joint head centering
- E - Puller, connecting ball-joint
- F - Fixture, ball-joint snap-ring installing



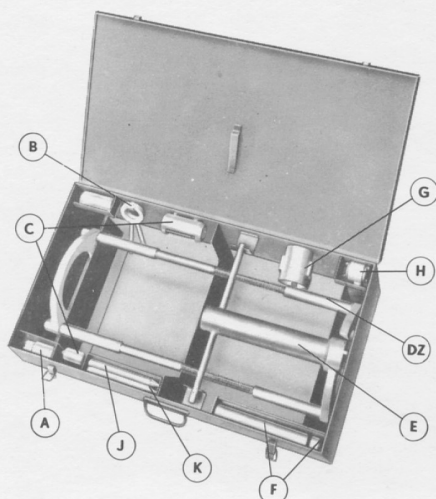
## 8 - BRAKES



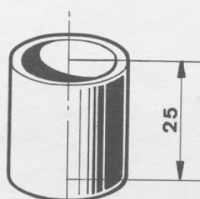
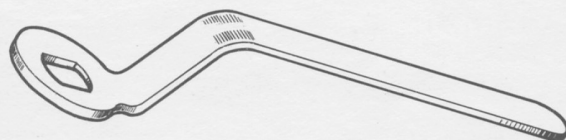
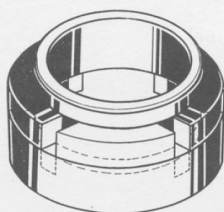
No. 8.0802

Hook, temperature-compensated brake springs installing & removing.

## 9 - SUSPENSION



\*New tools



No. 8.0902 Z - Y

A - Serrated wrench, lower ball-joint attachment nut

B - Fixture, lower ball-joint snap-ring installing (404 saloon cars with earlier model front axle)

C - Wrench, shock-absorber rod nut

\*DZ - Fixture, front spring compressing - All types of 404s

E - Wrench, shock-absorber cap nut

F - Spacers { one 175 mm spacer

G - Support { one 15 mm spacer

\*H - Socket, pin-type { For 404s with steering

\*J - Tool, unstaking { swivels incorporating

\*K - Tool, staking { ball-joint cap nuts

Workshops already equipped with tool kit 8.0902 may order new chest 8.0902 Z and additional tools 8.0902 DZ-H-S-K- only.

Additional tools required for steering swivels with needle-type thrust bearings :

8.0902 EZ

Spacer wrench for new-model shock-absorber cap nuts

8.0902 CIU

Wrench, shock-absorber rod holding, Earlier model wrench 8.0902 C1 cannot be used since the new model shock-absorber rods are not drilled at their end. The new wrench may also be used for earlier model shock-absorbers of 404 cars.

8.0902 FZ

25-mm high spacer, to be used with the 175-mm spacer to obtain the 200-mm dimension required for new type shock-absorbers.

Printed in France

5-66 - 4. - N° 872 E