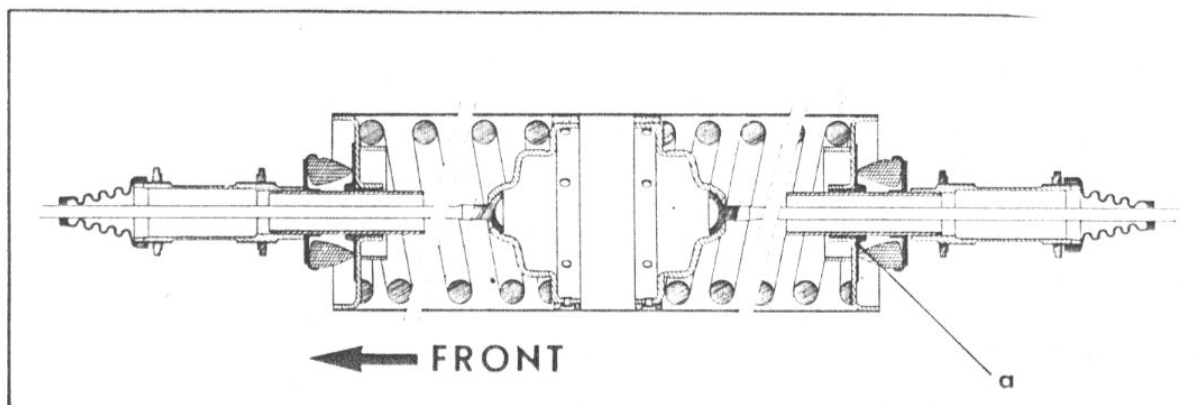
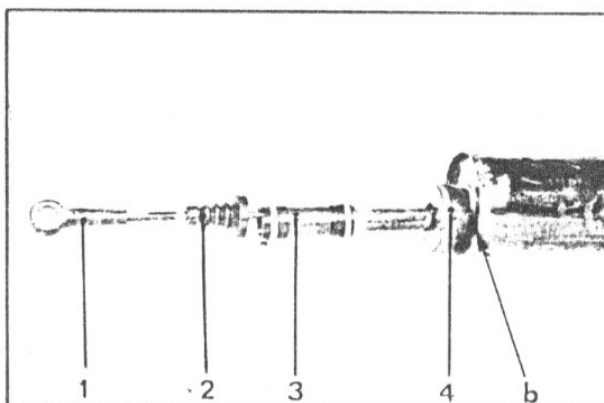


OVERHAULING A SUSPENSION UNIT

SC.3



REMOVAL



1. Unscrew the knife-edge end-pieces (1) from the front and rear tie-rods

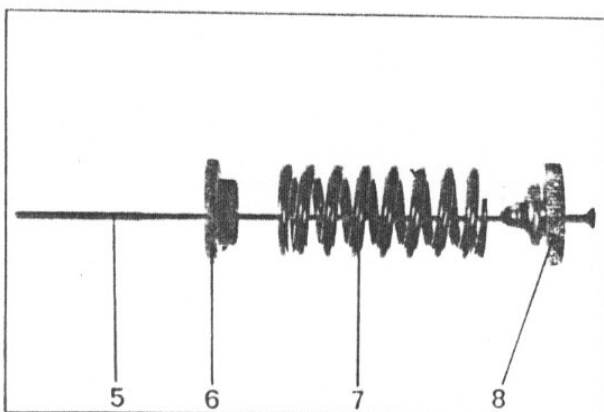
Free :

- the duct covers (2).
- the adjustable end-piece (3).
- the two rubber suspension buffers (4)

2. Using a scribe, mark the angular position of the front closing cup of the housing in relation to the latter

Remove, *for preference by grinding*, the weld seam at point « b » securing the closing cup on the cylinder housing (If milling is not possible hold pot in vice, tightening moderately, and saw weld seam)

3. Free the assembly :
 - front tie-rod (5),
 - front closing cup (6),
 - front suspension spring (7),
 - compression cup (8)



4. Free the assembly :

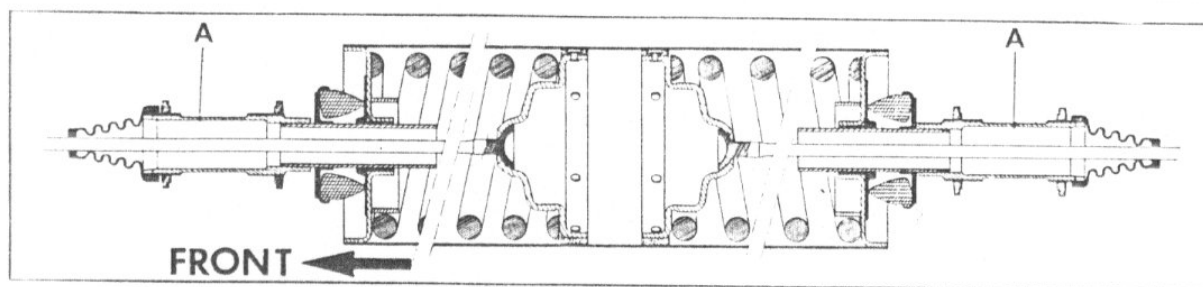
- rear tie rod,
- compression cup,
- rear suspension spring

Remove, if necessary, the felt joints and the bronze bushes at « a »

5. Clean all the parts

6. Prepare the closing cups :

If bushes at « a » are to be replaced, soak the new bushes in mineral oil for approximately 24 hours



Suspension units fitted on AZ and AZU vehicles :

VEHICLE TYPE	Length of springs decompressed and ϕ of wire (in mm)		Length of tie-rods (in mm)		Length of stub ends (in mm)	
	Front	Rear	Front	Rear	Front	Rear
AZ 9/1962 → 3/1963 AZU 6/1955 → 3/1963	185 14.35	170 15.25	623	644	191	173
AZ } 3/1963 → 9/1965 AZU }	185 14.8	170 15.25	600	644	173	173
AZ 9/1965 → 2/1970 AZU 9/1965 → 9/1972 AZ (2 CV 4) } 2/1970 → 10/1971 AZ (2 CV 6) }	185 14.8	170 15.25	600	642	173	182
AZ (2 CV 4) } 10/1971 → 9/1972 AZ (2 CV 6) }	193 15.25	170 15.25	600	642	173	182
AZU 9/1972 →	193 15.25	170 15.25	593	611	173	182
AZ (2 CV 4) } 9/1972 → AZ (2 CV 6) }	193 15.25	170 15.25	593	632	173	182

Suspension units fitted on DYANE vehicles - DYANE 4 and DYANE 6 :

AYA 8/1967 → 3/1968 AYA 2 3/1968 → 10/1968 AYA 3 1/1968 → 10/1968 AYB 10/1968 → 12/1968	185 14.8	170 15.25	600	642	173	182
AYA 2 10/1968 → AYB 12/1968 → 9/1972	193 15.25	170 15.25	600	642	173	182
AYA } 9/1972 → AYB }	193 15.25	170 15.25	593	632	173	182

Suspension units fitted on AK vehicles :

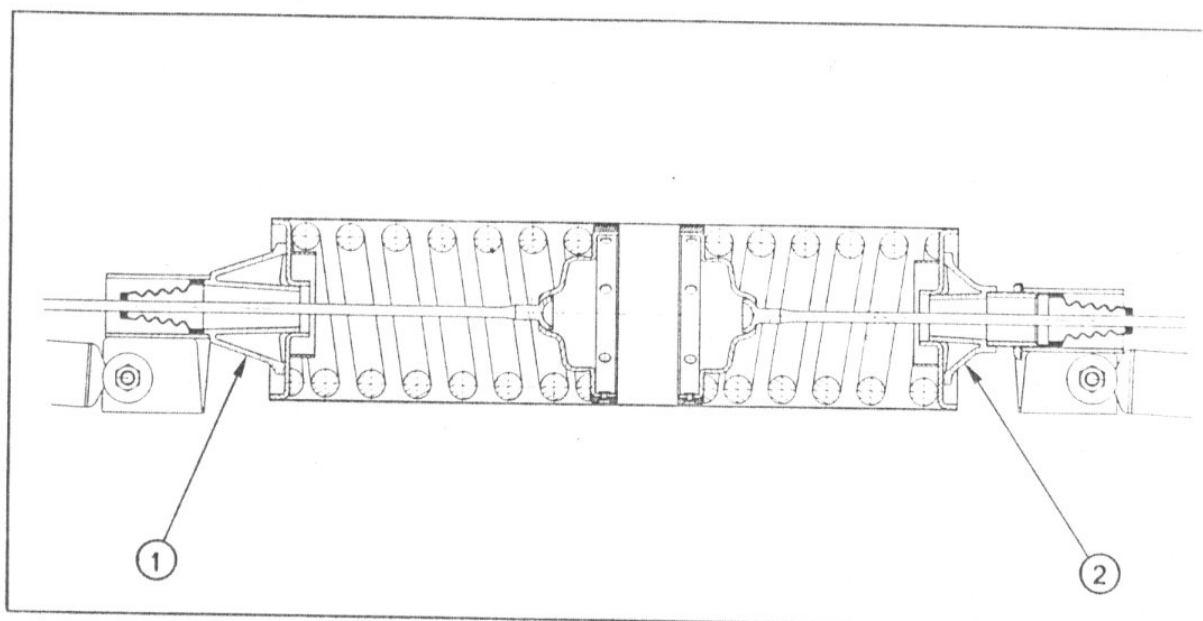
AK All Types 9/1962 → 5/1968 5/1968 → 7/1976	225 192 17.15	238 17.95	642	618 600	197	197
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Suspension units fitted on AM vehicles :

AM → 3/1969	192 17.25	205 17.25	623	623	197	197
AMB → 6/1972	195 18.2	243 19	623	644	197	197
AM 3/1969 → 6/1972	160 18.2	222 18.65	605	623	197	197
AM 6/1972 → 7/1976	160 18.2	222 18.65	575	611	197	197
AMB 6/1972 → 7/1976	160 18.2	222 18.65	611	632	197	197

* Suspensions without interaction :

SC.3



VEHICLE TYPE	Length of springs decompressed (in mm)		Length of tie-rods (in mm)	
	Front	Rear	Front	Rear
Suspension units fitted on AM vehicles :				
AM 3 7/1976 →	172 18	210.45 17.95	590	608
AMF 3 } AMC 3 } 7/1976 →	172 18	239.7 18.65	575	629

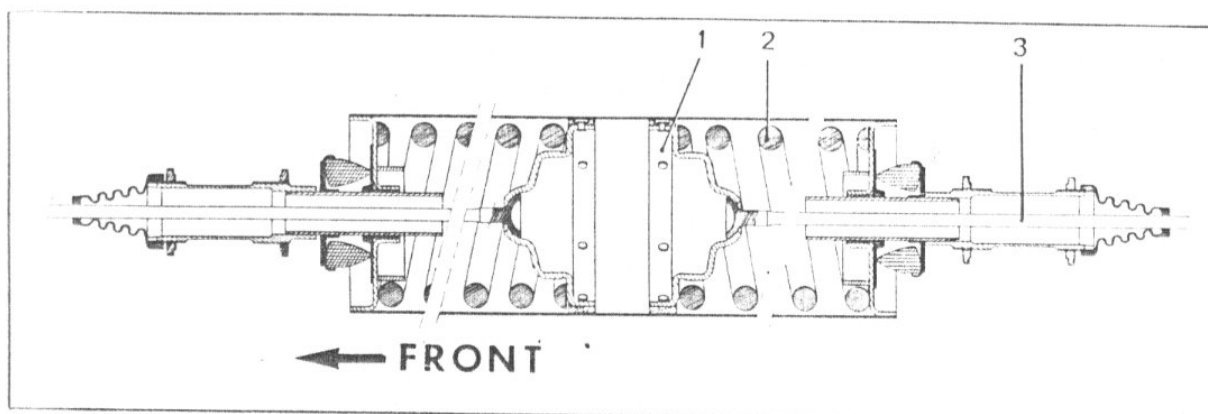
Suspension units fitted on AK vehicles :

AK 7/1976 →	168 17.15	260 17.15	575	608
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Suspension units fitted on AYCD (ACADIANE) vehicles :

	168 17.15	260 17.15	590	792
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* The suspension unit is secured by positioning two spacers ① and ② between the unit and the brackets on sidemembers.



7. Prepare the suspension springs :

As the spring test loadings are very high and checking the springs requires a very complicated testing apparatus, check should be limited to the verification of the wire diameter, the direction of the spiral winding and the height uncompressed (see table)

8. Prepare the suspension cylinder :

Smear the interior using only castor oil

9. Prepare the compression cups (1) :

Impregnate them with castor oil by immersion in a bath at an ambient temperature of workshop for 15 minutes, then leave them to drip

10. Prepare the tie rods :

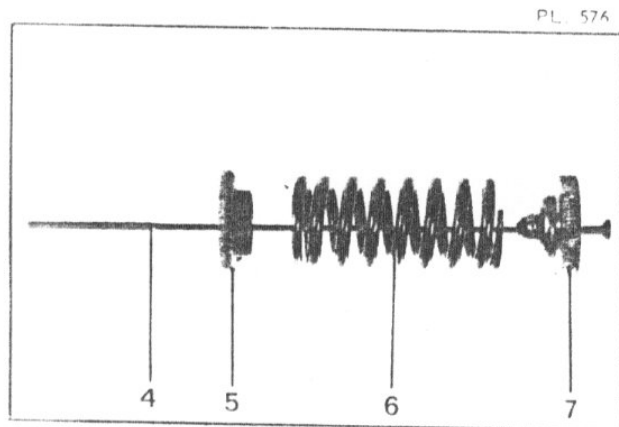
Identification (see table)

Grease the balls ends (TOTAL MULTIS grease)

11. Fit the suspension cylinder :

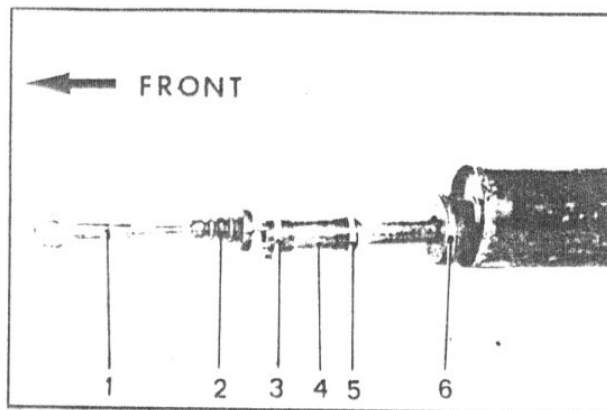
- a) Place in position in the casing :
 - the rear suspension spring (2),
(right-hand spiral winding).
 - the compression cup (1)
 - the rear tie-rod (3)
- b) Place on the front tie-rod (4) :
 - the compression cup (7),
 - the front suspension spring (6)
(left-hand spiral winding).
 - the front closing cup (5)

Insert the assembly in the casing



SC.3

PL. 51



12. Weld the front closing cup :

- a) Locate the cup in position marked when removing.
Ensure that the cap is perpendicular to the centre line of the casing.
- b) Arc weld or if not possible, weld with a blow torch.

13. Assemble the suspension unit :

Position in succession :

- a) On the front tie-rod :
 - the rubber suspension buffer (6),
 - the nut (5),
 - the adjustable end-piece (4) (see table) fitted with the nut (3),
 - the dust cover (2),
 - the end-piece (1) for carrying the knife edged pin
- b) On the rear tie-rod :
 - the rubber suspension buffer (12),
 - the nut (11),
 - the adjustable end-piece (10) (see table) fitted with the nut (9),
 - the dust cover (8),
 - the end-piece (7) carrying the knife edged pin.

PL. 51

