

In these SPECIAL INSTRUCTIONS the fitting parts are indicated for each type of car.

- parts below the aux. spring: **BOTTOM** assembly (polybag)
for fitting on the *original* shock/strut, see type in column BOTTOM and page 3
for fitting on a *non-original* shock/strut, see **TABLE** on page 2 and page 3
- parts on top of the aux. spring: **TOP** assembly (polybag)
see type in column TOP and page 4, 5, 6

<u>Model</u>	<u>Year</u>	<u>BOTTOM</u>	<u>TOP</u>	<u>REMARKS</u>
AUDI 100/200 Sedan + Avant (Station)	82-94	G	Ia	1
AUDI A6	94-05/97	G	Ia	1
BMW 5 Serie I E12	72-06/81	D	Ib.1	2
DAIHATSU Applause	89-01	G	Ia	.
DAIHATSU Charade	87-93	G	Ia	.
FIAT Uno	83-94	C	Ila.2	4
HYUNDAI Excel, Accent, Pony	10/94-99	F	Ia	.
MAZDA Demio	98-	G	Ic.1	3
MITSUBISHI Colt, Lancer	88-92	B	Ic.2	.
MITSUBISHI Galant	84-93	B	Ic.2	.
MITSUBISHI Sapporo 2.4 Inj. (E16A)	88-90	B	Ic.2	.
RENAULT R9, R11	82-89	F	Ila.2	.
ROVER 200	96-	D	Ib.4	.
TOYOTA Carina II	84-88	G	Ia	.
TOYOTA Corolla	83-88	G	Ia	.
TOYOTA Corolla Sedan + Station	88-92	G	Ia	.
TOYOTA Corolla Sedan + Station	92-97	G	Ia	.
TOYOTA Corolla Sedan + Station	97-	G	Ia	.
TOYOTA Tercel AL20	82-85	G	Ia	.
VOLVO 340 - 360	76-92	C	Ilb	5
VW Corrado	88-96	D	Ib.3	.

REMARK 1

Remove strut (upper spring seat bolts inside wheel arch). Remove upper spring seat, do not remove main spring. Remove *bumpstop + dustcover (*not to be re-used). Fit rubberring 6, **BOTTOM** parts type G, aux. spring, **TOP** parts FIG. Ia, bumpstop with spacer 7B.

REMARK 2

Remove strut, upper spring seat and main spring, bumpstop + dustcover* (*not to be re-used). Remove the bumpstop rebound cap from the shockabsorber body. Fit rubberring 6, **BOTTOM** parts type D, aux. spring, **TOP** parts FIG. Ib.1, bumpstop with spacer 7B.

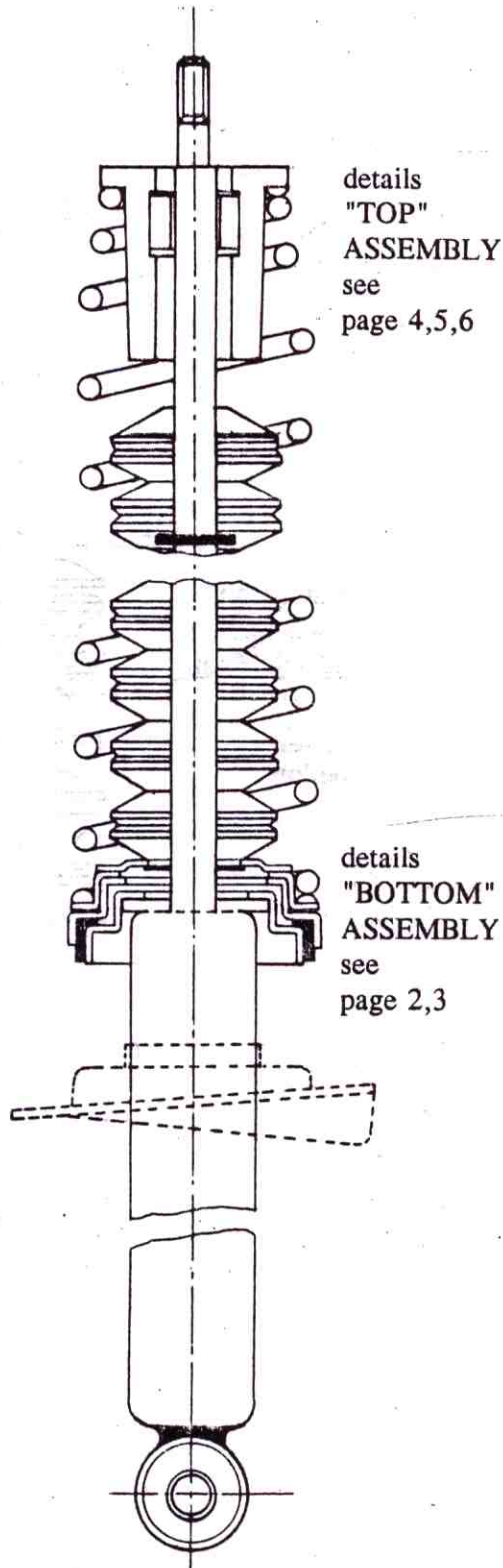
REMARK 3

Remove shockabsorber. Remove *steel cap + dustcover (*not to be re-used). Fit rubberring 6, **BOTTOM** parts type C, aux. spring, **TOP** parts Ila.2, bumpstop with spacer 7A.

REMARK 4

Remove shockabsorber. Remove dust cover and bumpstop (*not to be re-used). Fit **BOTTOM** parts type C, aux. spring, **TOP** parts Ilb.

FITTING INSTRUCTIONS
see page **SPECIAL INSTRUCTIONS !**



RECOMMENDATION:

Replace faulty shocks, however remember that only new gas- or hydraulic shocks do not raise the car.

Install CARSUPPORT auxiliary springs or CARSUPPORT replacement springs for extra car support.

STRUT (Mc Pherson)

1. The normal lay-out is:
1 central nut on top of the piston rod
or
2 or 3 smaller nuts fitted to the upper spring seat. In that case do not unscrew the central nut.
2. Mark the upper spring seat(s), the spring and the lower spring seat.
3. Disconnect the strut, sometimes only partially:
see page: "SPECIAL INSTRUCTIONS"
4. Remove main spring, spring compressor may be needed:
-unscrew central nut
-place removed fitting parts in correct order
5. Fitting parts of the aux. spring set as per instructions:
-BOTTOM PARTS below the aux. spring:
see page 2 and 3
-TOP PARTS on top of the aux. spring:
see page 4 and 5

"NORMAL" SHOCKABSORBER

1. Disconnect shock, sometimes only partially:
see page: "SPECIAL INSTRUCTIONS"
2. Remove steel/plastic dustcover:
see page 6
3. Fitting parts of the aux. spring set as per instructions:
-BOTTOM PARTS below the aux. spring:
see page 2 and 3
-TOP PARTS on top of the aux. spring:
see page 6

NOT ALL PARTS OF THIS SET WILL BE USED

"BOTTOM" ASSEMBLY

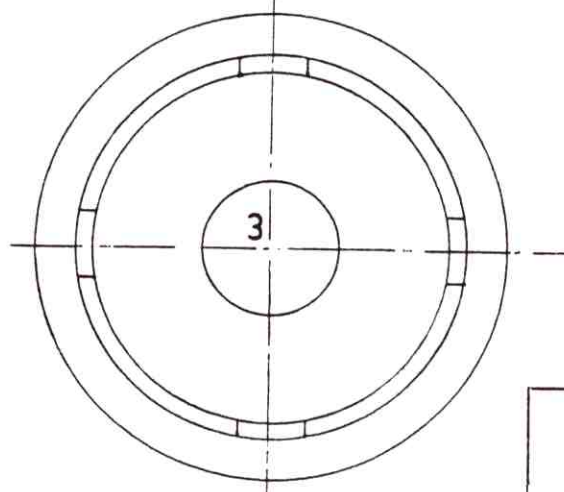
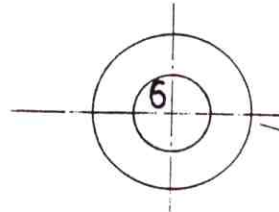
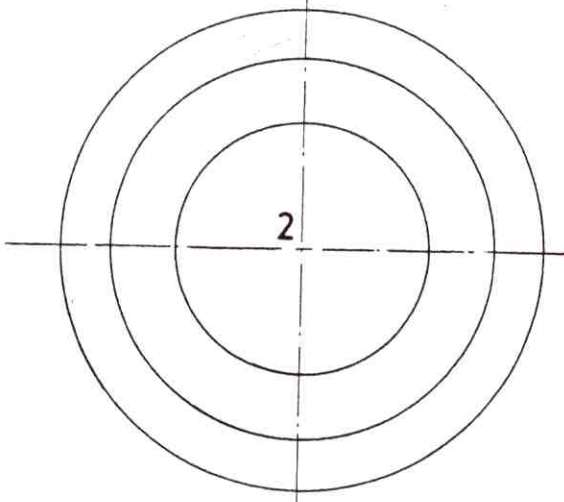
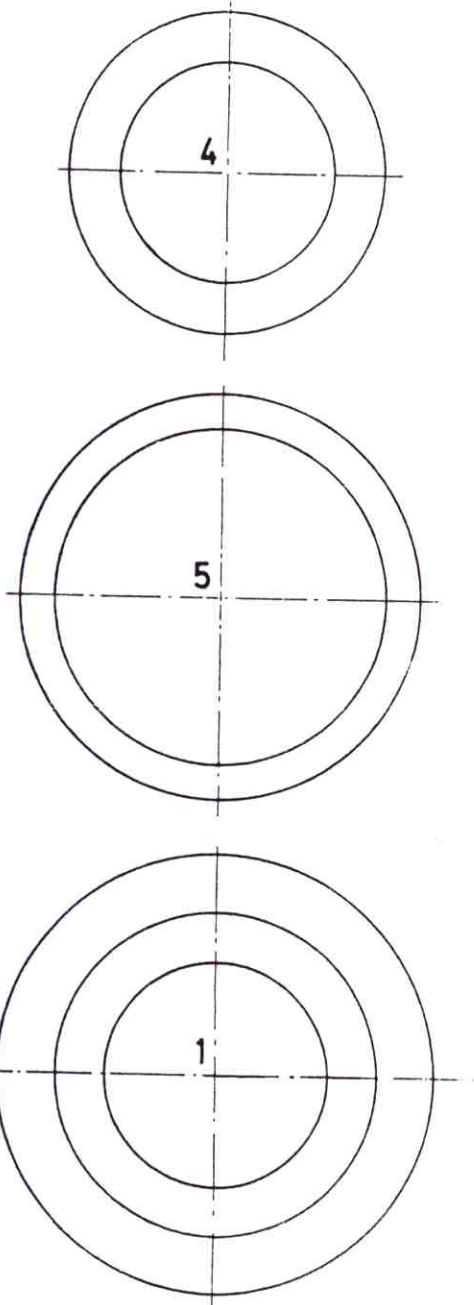
polybag containing:

- (1) steel seat, small
- (2) steel seat, large
- (3) seat with bellow fitted
- (4) rubber collar, small
- (5) rubber collar, large
- (6) rubber ring, small

Measure diameter d1 of the plastic or steel top of the shockabsorber body and select parts 1-5 as shown in the TABLE.

If diameter d1 is greater than 60 mm:
remove rebound cap if fitted.

PLACE WIDE END OF AUX. SPRING ON SEAT 3.



piston rod diameter
 $d2 = 9-16\text{mm}$
fit part 6
inside
bellow

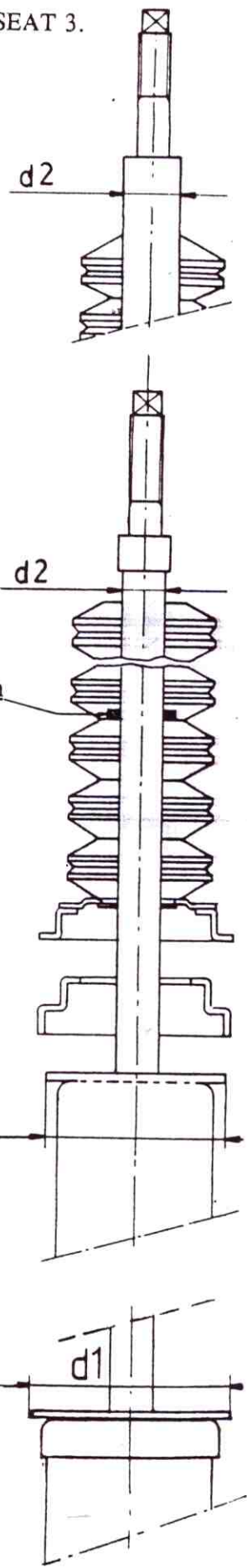


TABLE for parts required

type	diameter d1 (mm)	needed parts
A	36 - 39	1+5+2+3
B	39 - 40,5	4+2+3
C	40,5 - 43	4+3
D	43 - 46	2+3
E	46 - 48,5	3
F	48,5 - 51,5	5+1+4+3
G	51,5 - 55	1+5+2+3
H	55 - 57,5	5+2+3
I	57,5 - 60,5	2+3

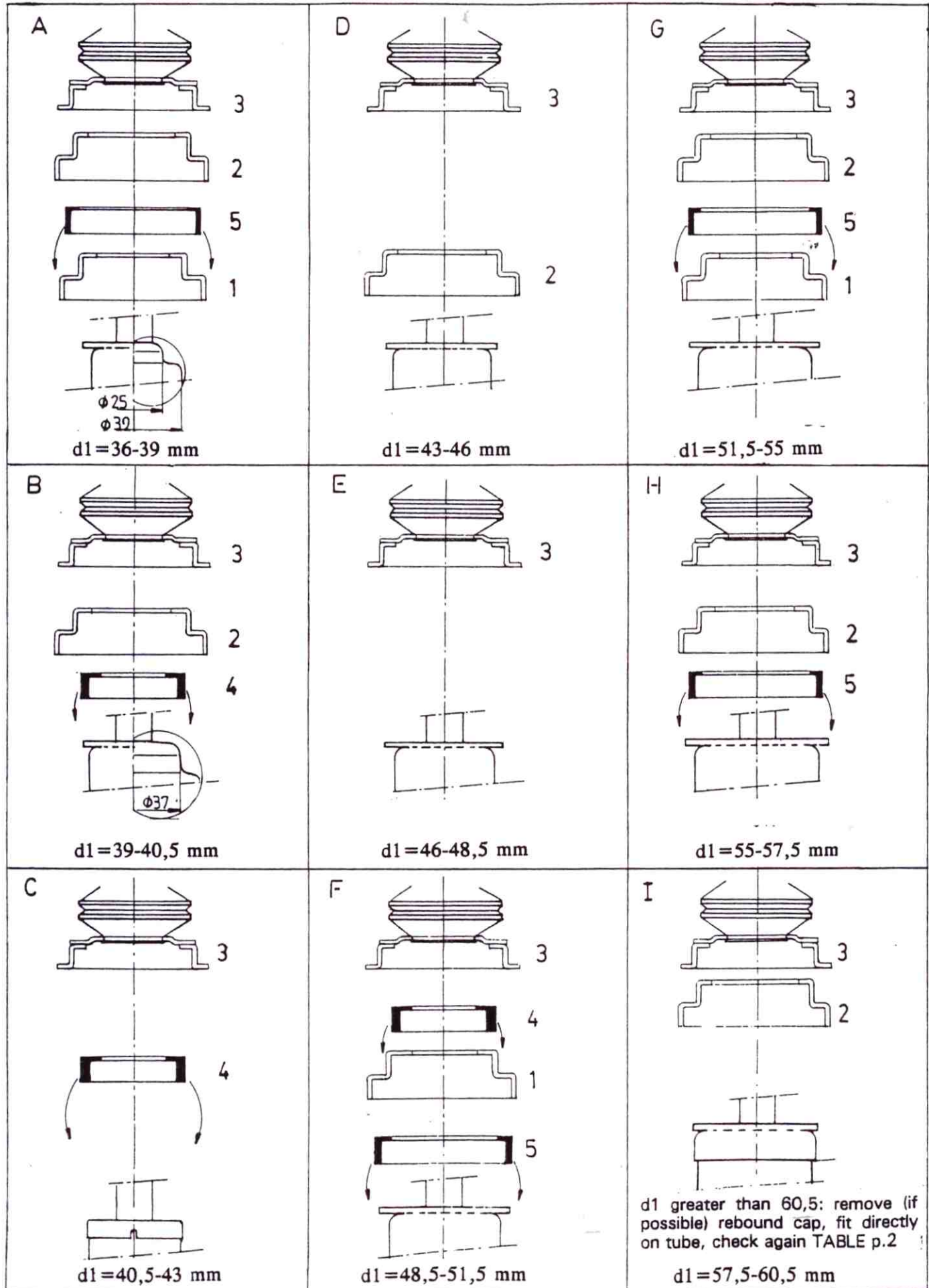
example
Measure d1: for instance $d1 = 38\text{mm}$
See TABLE: type A.
Parts 1, 5, 2 and 3 has to be fitted.
Part 4 will not be used.

On page 3 the assembly of these parts is shown: see A

"BOTTOM" ASSEMBLY

to select the parts 1-5:
check TABLE page 2

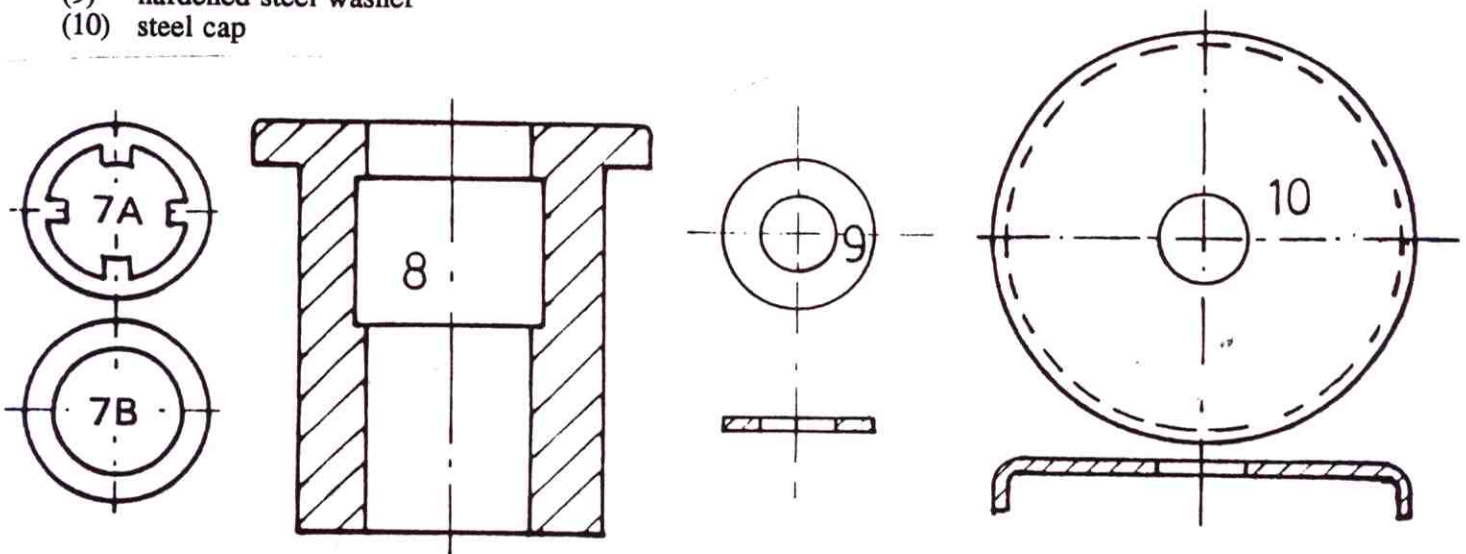
See drawing page 2 Piston rod diameter $d_2 = 9-16\text{mm}$:
stretch rubber ring 6 halfway over the piston rod then fit
the bellow. If d_2 is greater: do not fit rubber ring 6



"TOP" ASSEMBLY

polybag containing:

- (7A) plastic bush
- (7B) plastic bush
- (8) rubber bumpstop
- (9) hardened steel washer
- (10) steel cap



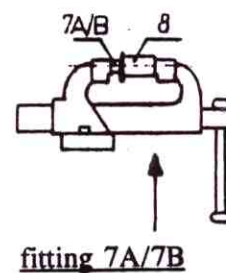
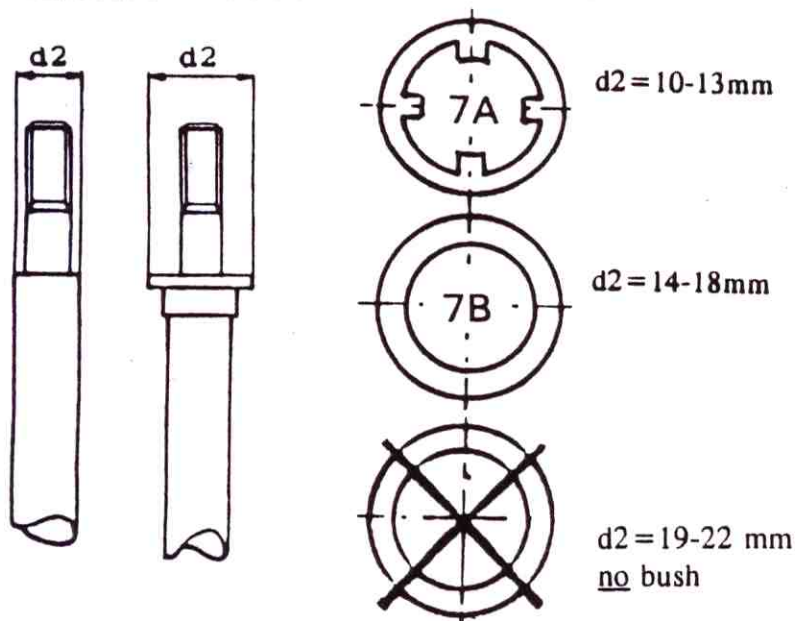
FITTING "TOP" ASSEMBLY

Select plastic bush 7A/7B -or- no plastic bush

There are two types of plastic bushes (7A/7B).

Select the plastic bush with the smallest piston rod clearance as follows:

1. Try to shift plastic bush 7A completely downwards over the piston rod. If it matches press 7A into bumpstop 8.
2. If 7A does not matches, try in the same way 7B.
3. If 7B does not matches do not use a plastic bush.



To select steel washer 9 and cap 10 :

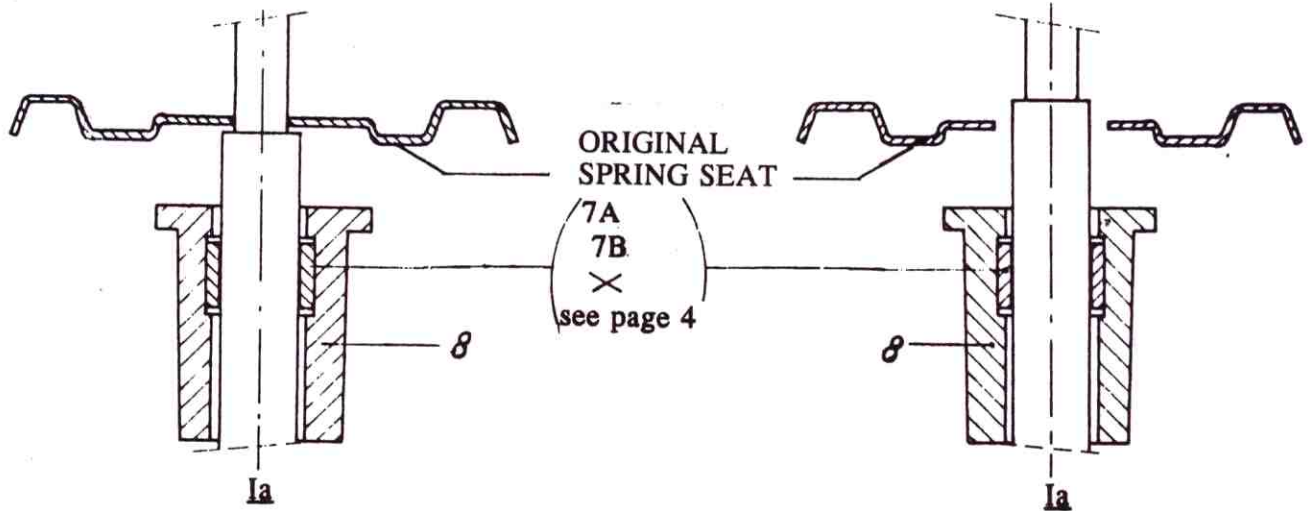
STRUT: see page 5

SHOCKABSORBER: see page 6

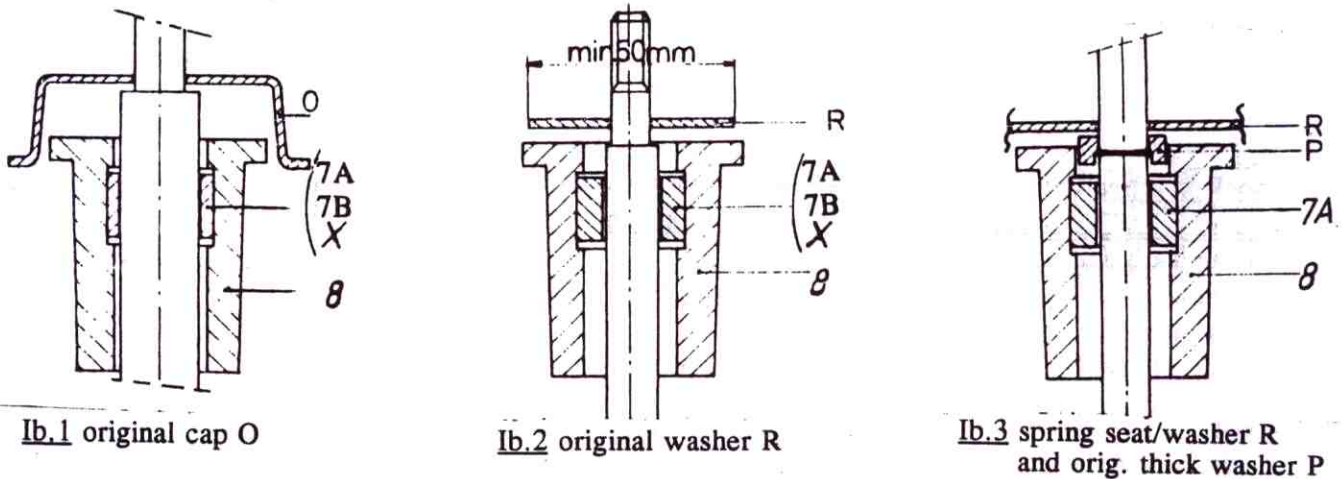
FITTING "TOP ASSEMBLY" (fitting "BOTTOM ASSEMBLY" see page 1,2,3)

- original bumpstop and dustcover will be re-placed by parts in the kit
- install aux. spring
- install bumpstop 8 with or without spacer 7A/B, see page 4
- type Ia and Ib.1,2,3: washer 9 and cap 10 not to be used
- type Ic.1,2,3: fit washer 9 (if possible) + cap 10
- re-install main spring / strut using original parts on top

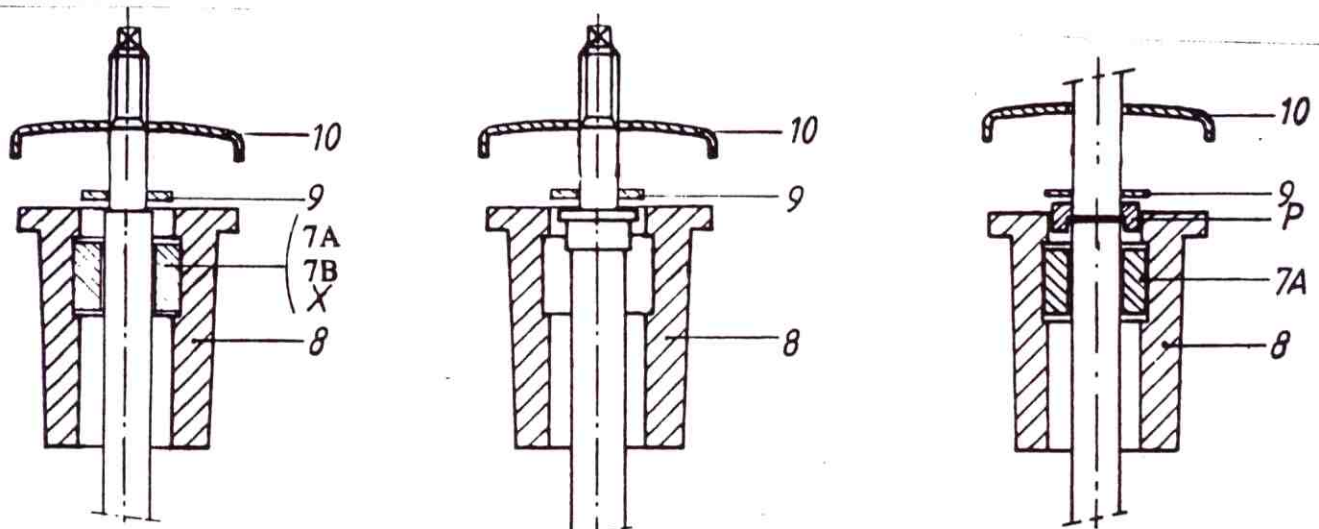
TYPE Ia. Strut without removable original bumpstop cap



TYPE Ib. Strut with removable original bumpstop cap or washer



TYPE Ic. Removable original bumpstop cap or washer is too small and has to be replaced



Ic.1 washer 9* + cap 10
*9 if possible

Ic.2 washer 9* + cap 10
*9 if possible

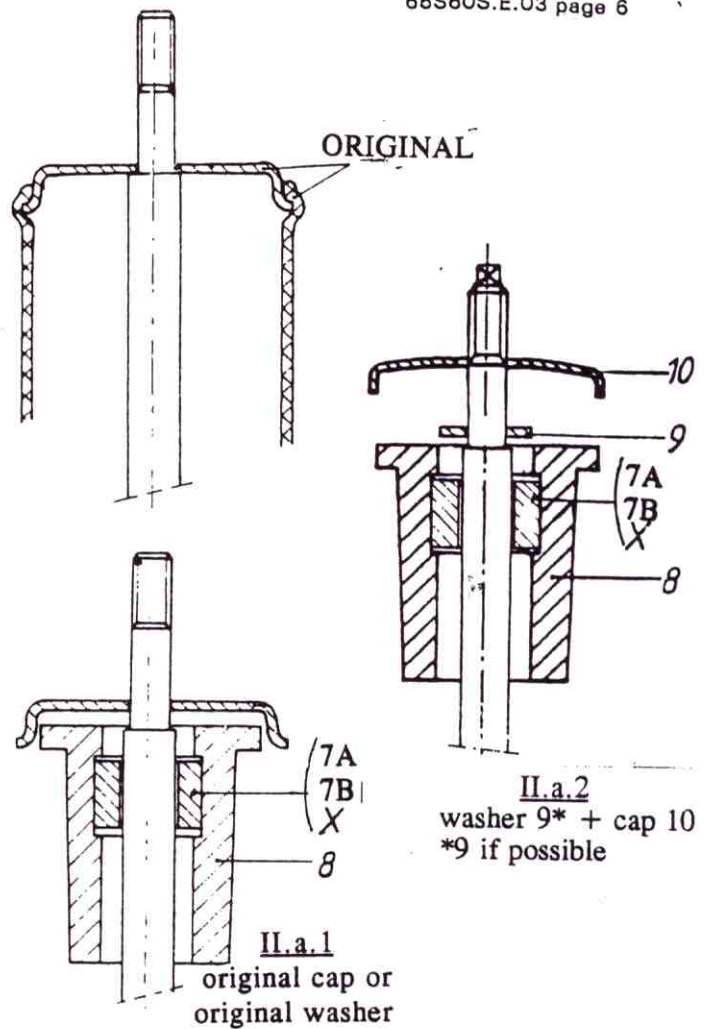
Ic.3 orig.thick washer P + washer 9*
*9 if possible + cap 10

GENERAL
for SHOCKABSORBER only
(not carrying a main spring - no strut)

TYPE IIa

Shockabsorber with plastic or rubber dustcover fixed onto REMOVABLE steel cap or washer on top

- remove steel cap and pull off dustcover
- remove original bumpstop if fitted
- fit the correct "BOTTOM" parts, see page 1,2,3
- install aux. spring
- install bumpstop(8) with or without bush 7A/B, see p.4
- II.a.1:
re-install the original steel cap if bumpstop(8) fits
- II.a.2:
fit washer 9 (if possible) and cap 10 if the orig. cap is too small, see page 5: I.c.1, I.c.2, I.c.3
- re-install the shockabsorber using the original fitting parts on top



TYPE IIb

Shockabsorber with a fixed (welded) steel dustcover, or with a fixed (welded) steel cap on top and a plastic cover

- cut the cap 4 times in a square on 21 mm wide as shown
- grind or file off corners to allow the bumpstop 8 to pass
- remove original bumpstop (if fitted) by cutting lengthwise
- make sure not to damage the piston rod
- fit the correct "BOTTOM" parts, see page 1,2,3
- install aux. spring
- install bumpstop 8 without bush 7A/B
- fit washer 9 (if possible) and cap 10, see II.b
- re-install the shockabsorber using the original fitting parts on top

