

SECTION 5

Suspension

SECTION 2
Suspension



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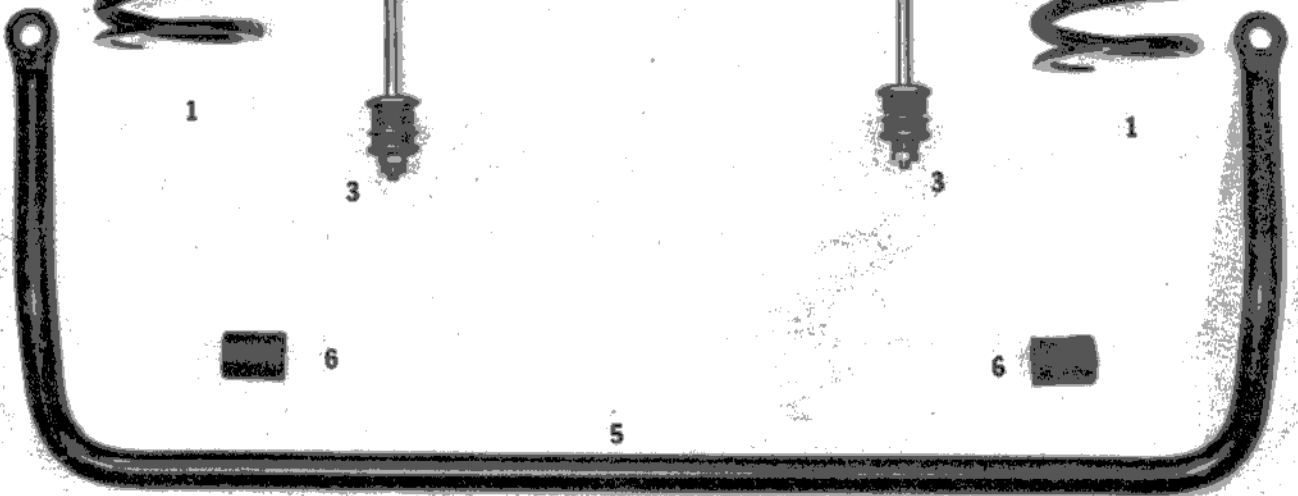
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VOLVO

*Competition
Service*

PROD	SECTION
120, 130, 1800S 1800E/ES Suspension	5
	NO.
	1
DATE	
May, 1977	

Pos	Qty	Part No.	Description	Specification
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SPRINGS

1	2	525060-0	Front rally progressive rate spring. 20% stiffer. 120/1800	Length 12" (12")
2	2	525061-8	Rear rally progressive rate spring. 10% stiffer. 120/1800	Length 15" (15")

"Progressive rate" refers to the extra capability of a spring to actually increase its stiffness as compressed. It is accomplished through the use of varying the steel's diameter through the spring. This results in a relatively comfortable ride yet provides the necessary stiffness for large dips, bumps and hard cornering.

SHOCK ABSORBERS

3	2	552101-8	Bilstein rally shock absorber, front. 120/1800	
4	2	552102-6	Bilstein rally shock absorber, rear. 120/1800	
	2	552093-7	Bilstein shock absorber, front. 444/544	
	2	552094-5	Bilstein shock absorber, rear. 444/544	



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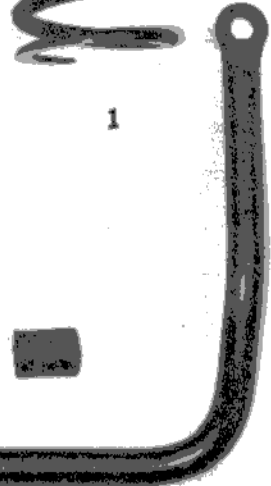


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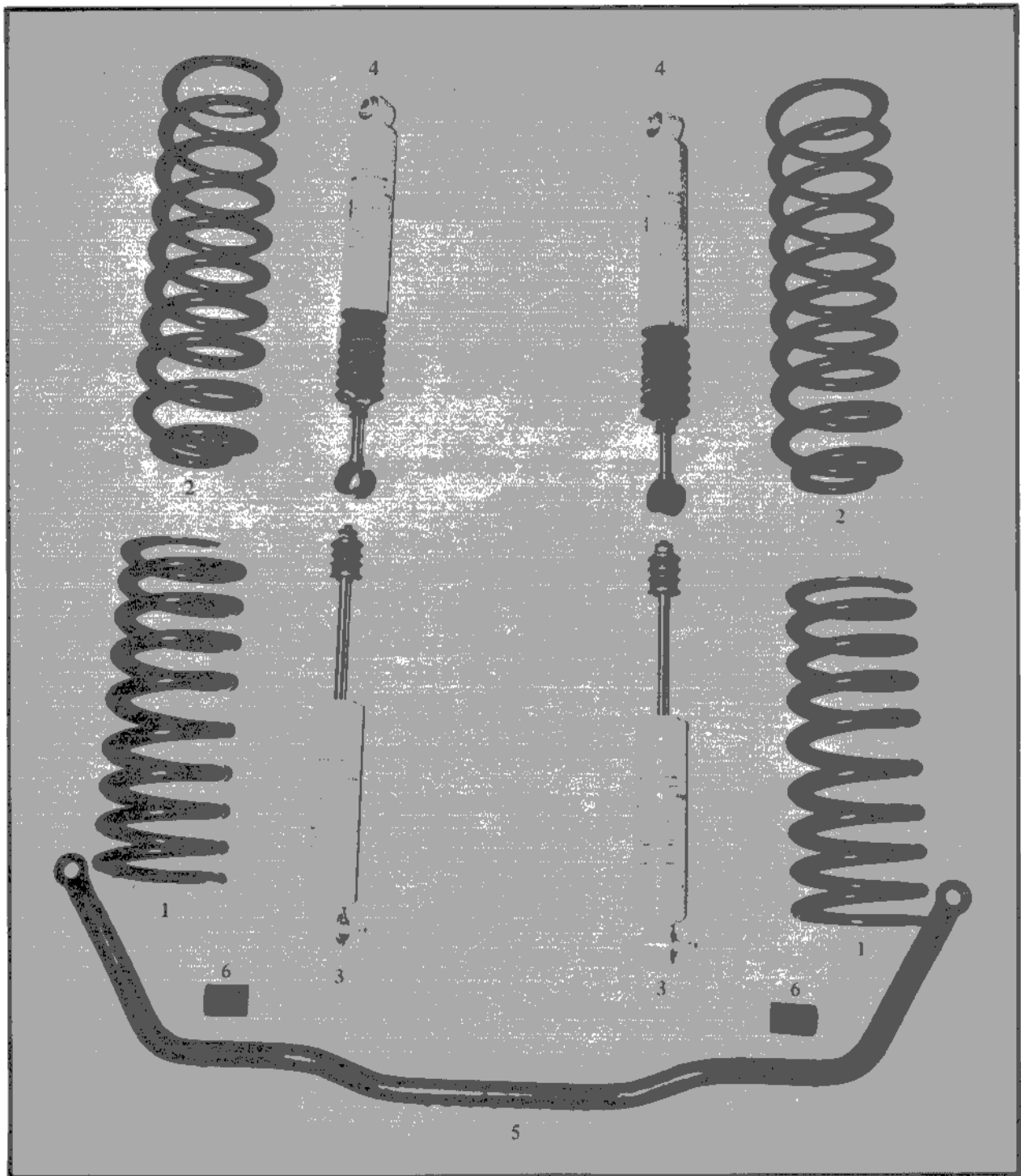
VOLVO

*Competition
Service*

PROD	SECTION
140 Suspension	5
	NO.
	3
DATE	
May, 1977-	

Pos	Qty	Part No.	Description	Specification
			SPRINGS	
1	2	552105-9	Front road/rally progressive rate spring. 15% stiffer.	Length 11½" (12")
	2	552106-7	Front progressive rate rally spring. 25% stiffer.	Length 13" (12")
	2	552137-2	Rear progressive rate spring package - includes one special rear spring plus necessary attachments for limiting straps. Limiting strap necessary for off-road rally due to possible shock absorber damage.	Fits all 140s.
2	1	552136-4	x Rear progressive spring. 15% stiffer.	Length 17½" (16½") Fits '74 140 and 240/260 without aid of above mentioned attachment kit.
	1	552151-3	x Lower spring holder	
	2	552152-1	x Attachment for strap	
	1	*660108-2	x Limiting strap	
	2	*940162-1	x Bolt	

"Progressive rate" refers to the extra capability of a spring to actually increase its stiffness as compressed. It is accomplished through the use of varying the steel's diameter through the spring. This results in a relatively comfortable ride yet provides the necessary stiffness for large dips, bumps and hard cornering.



VOLVO

Competition Service

140 Suspension

SECTION

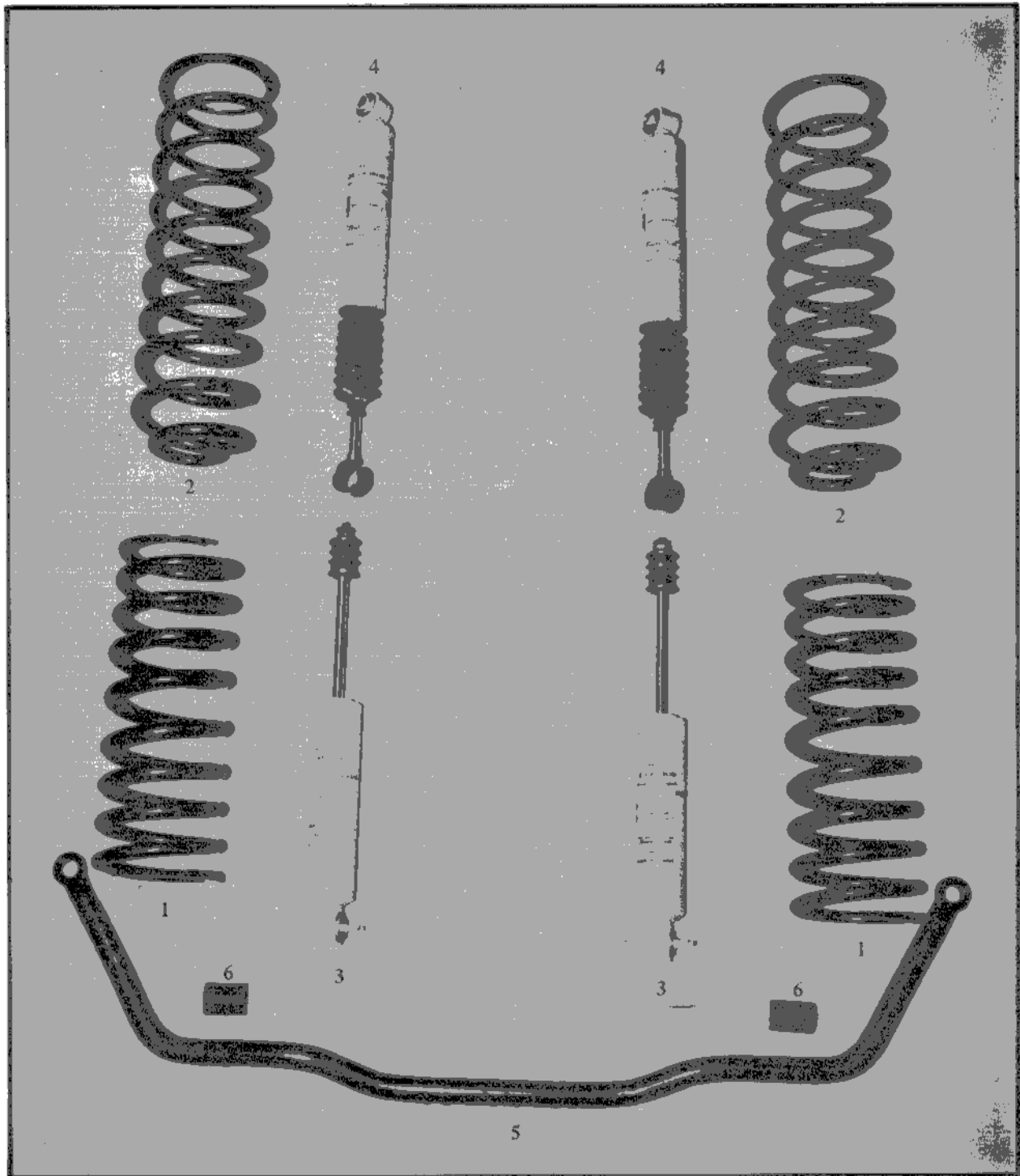
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Pos	Qty	Part No.	Description	Specification
	2	552134-9	Road/Rally spring, front ride height remains standard. 70% stiffer.	Length 10" (12")
	2	552128-1	Short, Road/Rally spring, rear. 10% stiffer.	Length 14½" (16½")
	2	552107-5	Volvo Cup race spring, front. 50% stiffer.	Length 9½" (12")
	2	552108-3	Volvo Cup race spring, rear. 10% stiffer.	Length 13" (16½")
SHOCK ABSORBERS				
	1	552185-1	Rally/Race shock kit de Carbon extra firm gas pressure shocks.	Fits all 140s.
3	2	552189-3	x Front shock.	
4	2	552192-7	x Rear shock.*	
	1	552186-9	Roadsport shock kit de Carbon gas pressure shocks, firm but not harsh.	
	2	552191-9	x Front shock.	
	2	552192-7	x Rear shock.*	
	2	552103-4	Bilstein "extra firm" rally shock absorber-front. All 140s.	
	2	552104-2	Bilstein "extra firm" rally shock absorber-rear. 1967 to 9/71.	
	2	552092-9	Bilstein "extra firm" rally shock absorber-rear. 1972 to 1974 140s.	

*Fits all 140s but '67 - '70 must use
adaptor kit 282761-6.



VOLVO

Competition Service

140 Suspension

SECTION

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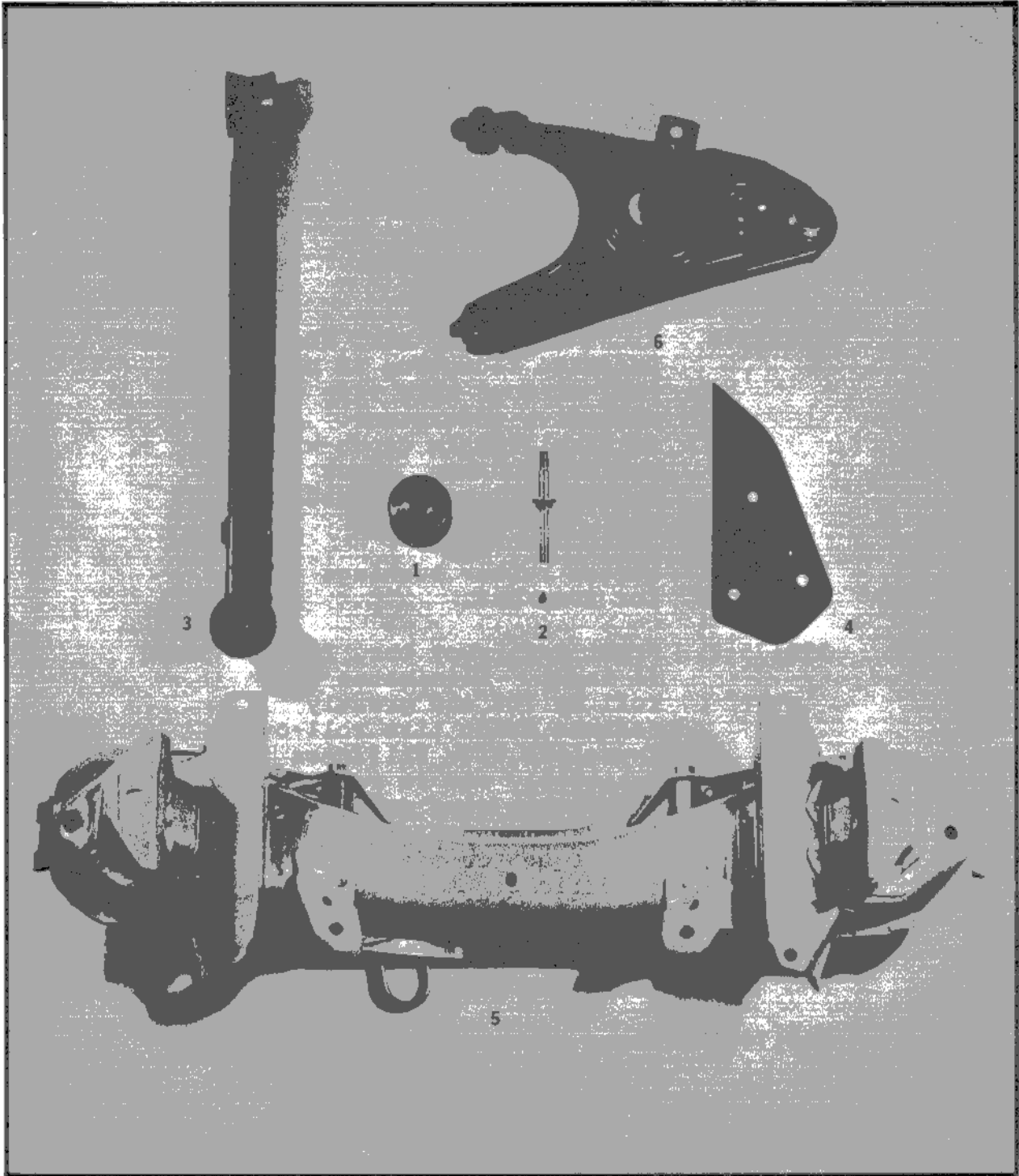
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Pos	Qty	Part No.	Description	Specification
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ANTI-SWAY BARS

1		552171-1	Front anti-sway bar, 18mm. Reduces body roll without ride deterioration or increased understeer. All 140s.	(15mm)
1		552172-9	Front anti-sway bar, 20mm. Definite reduction in body roll without hard ride or excessive understeer. Adds to stability in cross-wind and lane change. Best choice for any off road use. All 140s.	(15mm)
2		552173-7	Larger rubber bushings for 20mm bar.	
5	1	552175-2	Front anti-sway bar, 25mm (1 inch). Eliminates body roll by 70% and greatly reduces front tire roll-over. Increases ride stiffness noticeably and is recommended for smooth road or race track. Not recommended for use on very rough or off-road conditions. Although under- steer is increased with the use of the bar, many drivers find it "interesting" and prefer not to use an additional rear bar.	(15mm)
6	2	552176-0	Large rubber bushing for 25mm bar.	



VOLVO

Competition Service

140 Suspension

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NO.

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Pos	Qty	Part No.	Description	Specification
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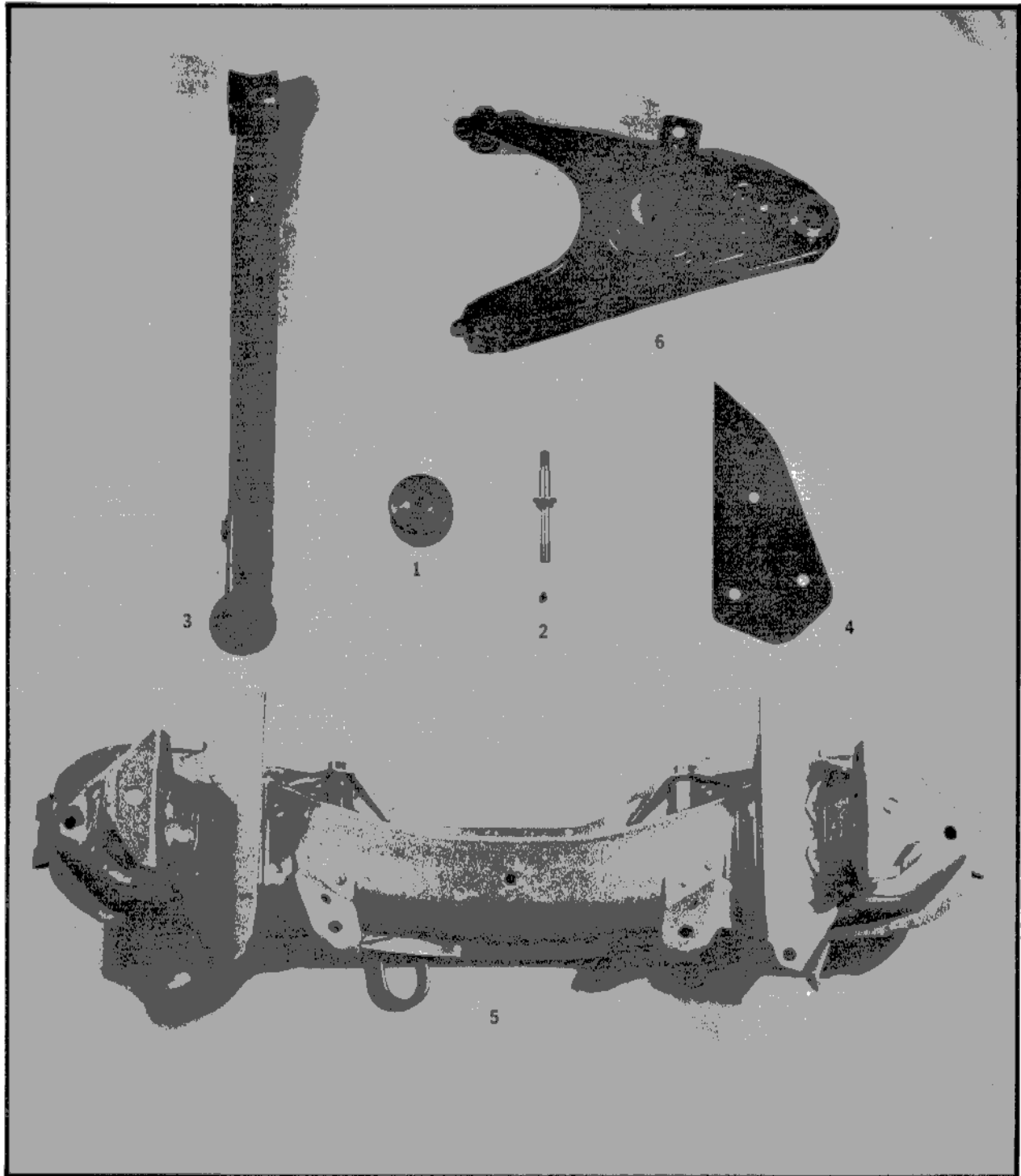
HEAVY DUTY SUSPENSION PARTS

1	2	552140-6	Extra hard bushing for rear suspension support arms. Eliminates any tendency for rear suspension to shift during hard cornering, braking or acceleration.	
2	2	552141-4	Stainless steel lower shock absorber mounting bolt. Recommended for heavy duty use with stiffer shock absorbers.	
3	2	552138-0	Rear support for 1967 - 1970 140. Reinforced and boxed for zero twist in off-road use.	
3	2	552139-8	Rear support arm for 1971 to 1974 140, same as above.	
5	1	552130-7	Front axle cross-member, reinforced and boxed, for extremely rough use.	
	1	552131-5	Lower wishbone-left. Boxed and reinforced, designed for off-road use.	
	1	552132-3	Lower wishbone-right. Same as above.	

Below is a list of brake pad kits most commonly used by Volvo competitors. These are standard parts and choice is best left to individual preference due to variances in both car and driver.

BRAKE PADS

1	*275894-4	Brake pad kit, front (Girling)
1	*275895-1	Brake pad kit, rear (Girling)



VOLVO

Competition Service

140 Suspension

SECTION

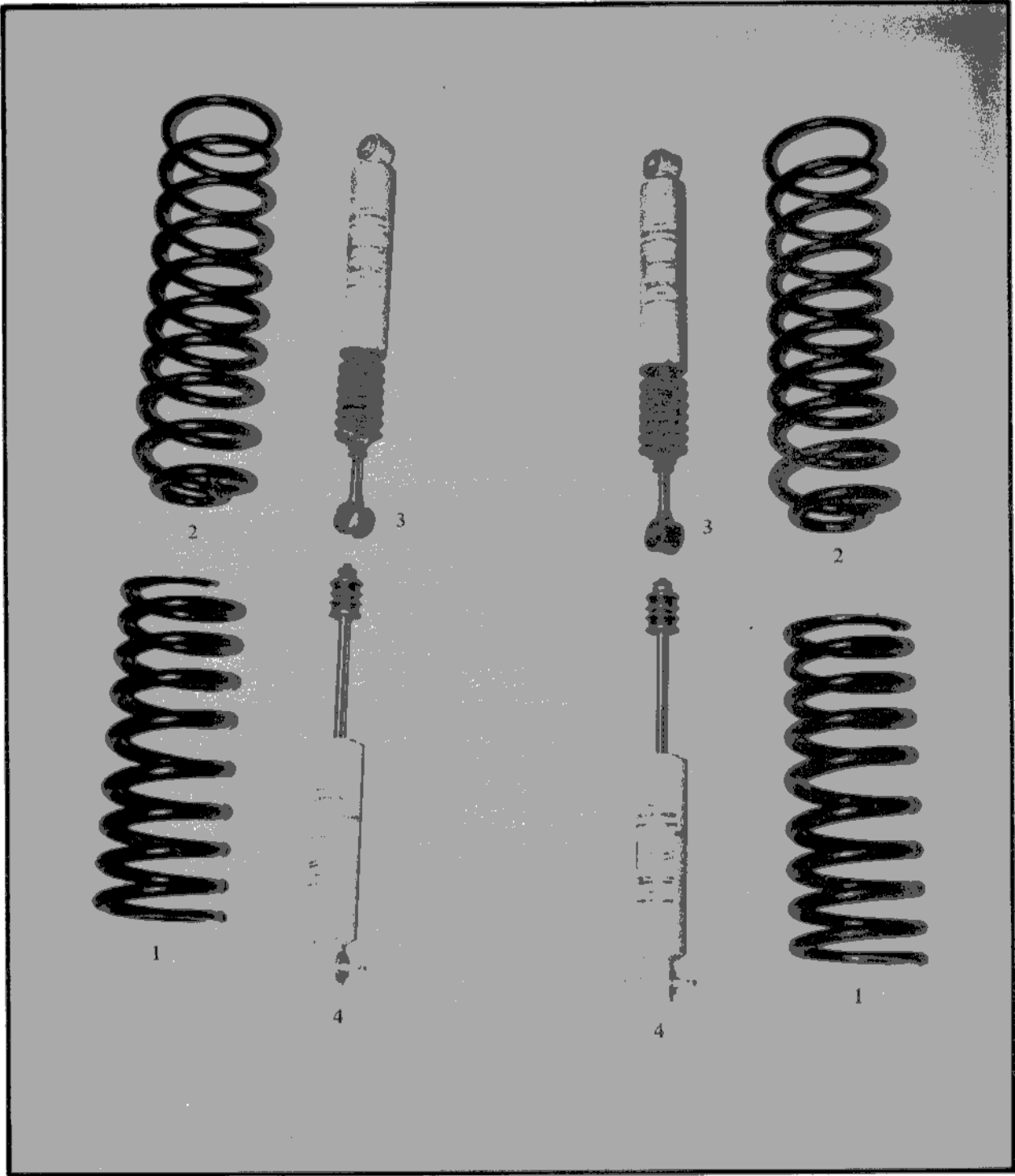
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Pos	Qty	Part No.	Description	Specification
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1		*272530-7	Brake pad kit, front (ATE)	
1		*274531-5	Brake pad kit, rear (ATE)	
1		*272566-1	Brake pad kit, front (Girling)	
1		*272567-9	Brake pad kit, rear (Girling)	

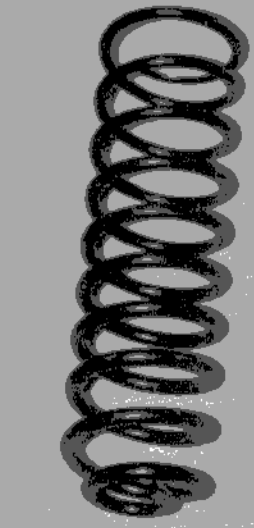


VOLVO

*Competition
Service*

PROD	SECTION
164 Suspension	5
	NO.
	8
DATE	
May, 1977	

Pos	Qty	Part No.	Description	Specification
			SPRINGS	
	1	552134-9	Short road/rally spring, front.	Length 10" (12")
	2	552128-1	Short road/rally spring, rear. 10% stiffer.	Length 14½" (16½")
1	2	552135-6	Progressive rate spring, front. 10% stiffer.	Length 12" (12")
	2	552137-2	Progressive rate spring package - rear. Special springs plus necessary attachments for limiting straps. Limiting straps necessary for off-road rally due to possible shock absorber damage.	
2	1	552136-4	x Rear progressive springs.	Length 17½" (16½") 15% stiffer.
	1	552151-3	x Lower spring holder	
	2	552152-1	x Attachment for strap	
	1	*660108-2	x Limiting strap	
	1	*940162-1	x Bolt	



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VOLVO

Competition Service

164 Suspension

SECTION

5

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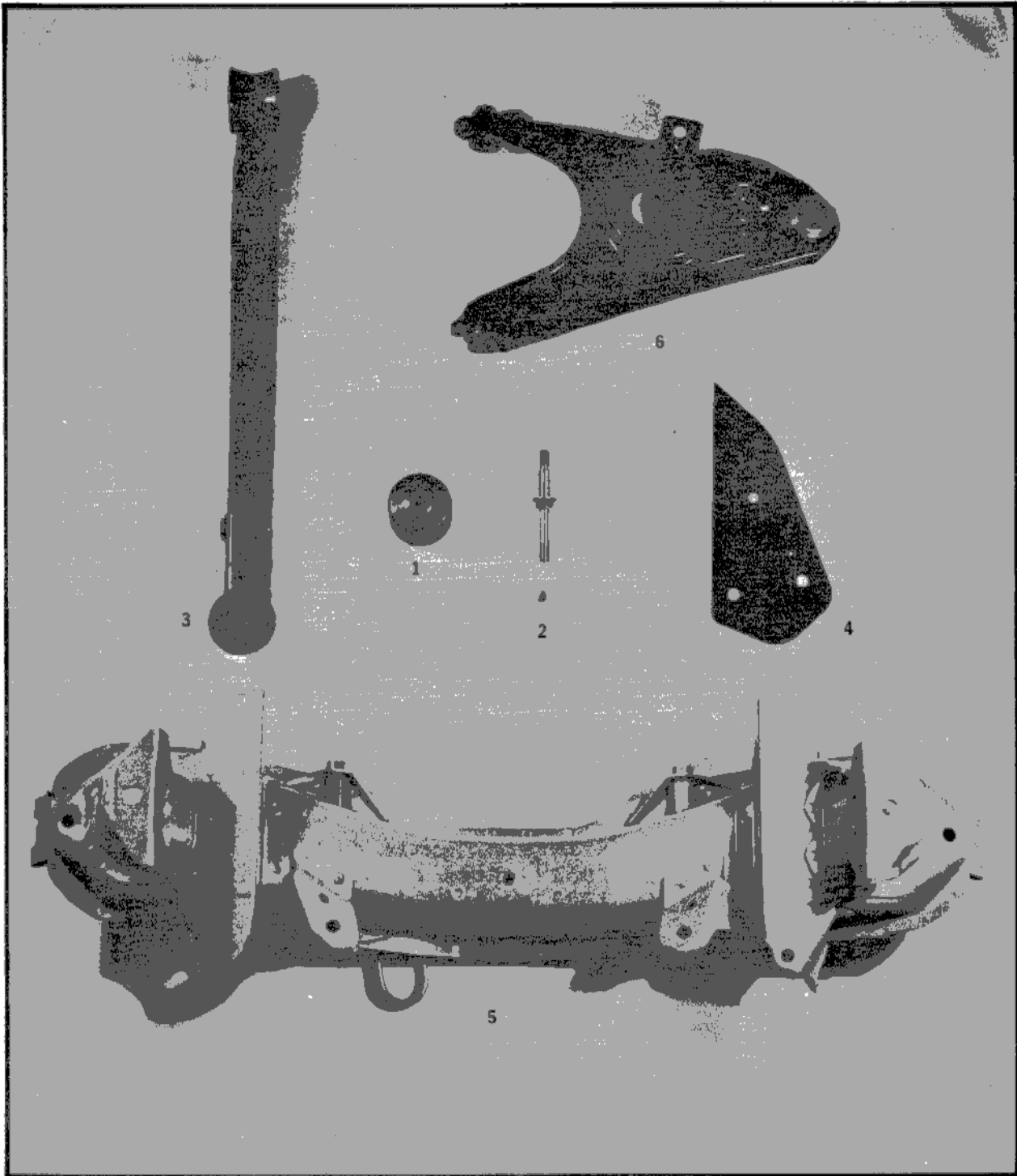
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Pos	Qty	Part No.	Description	Specification
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SHOCK ABSORBERS

1		552185-1	Rally/Race shock kit. de Carbon extra firm gas pressure shocks.	Fits all 164s.
2		552189-3	x Front shock	
2		552192-7	x Rear shock*	
3	1	552186-9	Roadsport shock kit. de Carbon gas pressure shocks, firm but not harsh.	
4	2	552191-9	x Front shock	
	2	552192-7	x Rear shock	
	2	552103-4	Bilstein "extra firm" rally shock absorber-front. All 164s.	
	2	552104-2	Bilstein "extra firm" rally shock absorber-rear. 1967 to 9/71.	
	2	552092-9	Bilstein "extra firm" rally shock absorber-rear. 1972 to 1974 164s.	
	2	552196-8	Roadsport shock, rear. de Carbon gas pressure. 1975 only.	

*Fits all 164s but '69 - '70 must use
adaptor kit, 282761-6.



VOLVO

Competition Service

120, 130, 1800
Suspension

SECTION

5

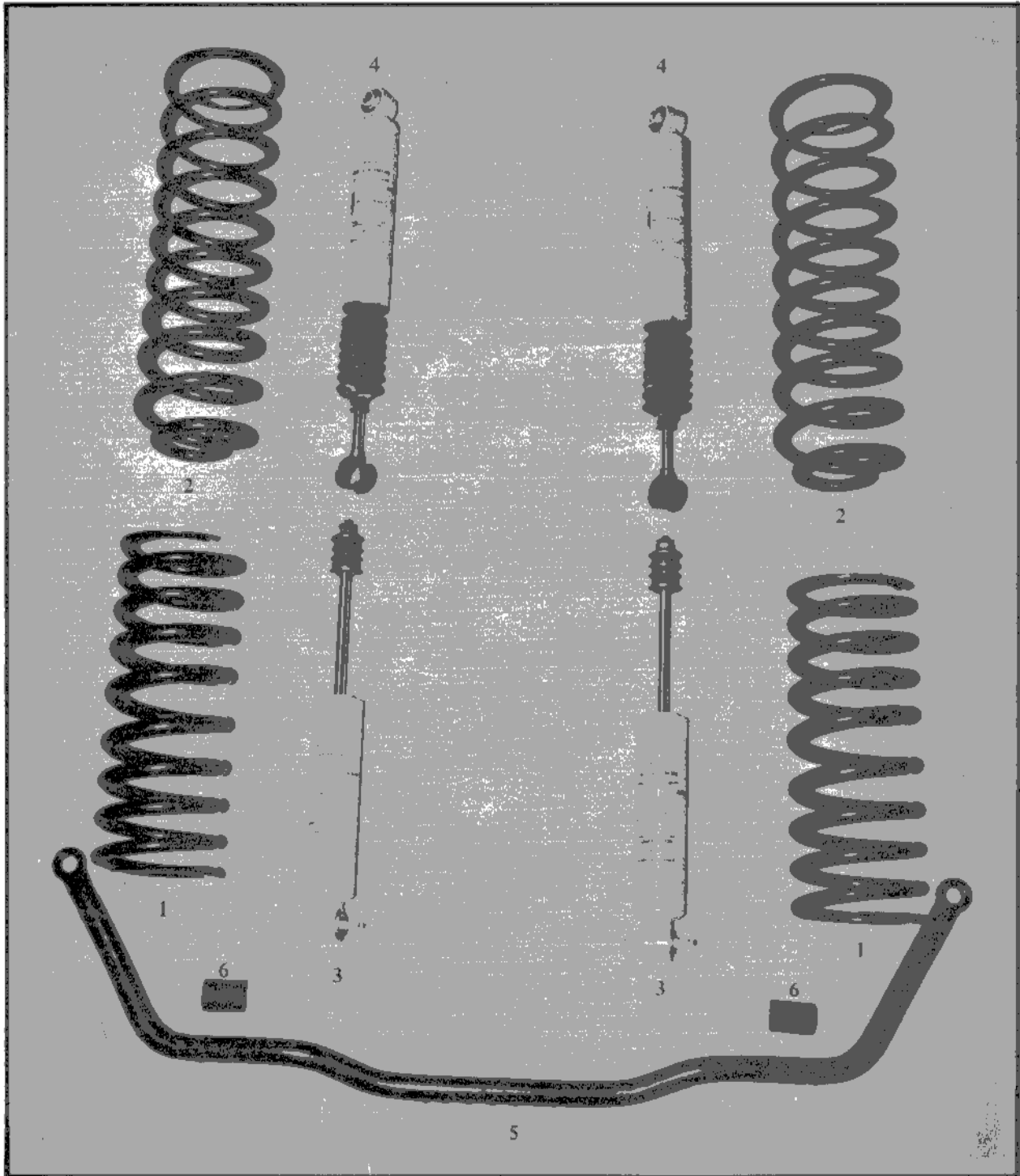
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Pos	Qty	Part No.	Description	Specification
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ANTI-SWAY BAR

5	1	659866-8	Front anti-sway bar, 24mm. Reduces body roll and increases stability. Very little increase in understeer. 120/1800	Size 24mm (20mm)
6	2	659869-2	Rubber bushing for 24mm anti-sway bar. 120/1800	
	1	*275894-4	Extra hard brake pads, front. 120/1800	



VOLVO

Competition Service

164 Suspension

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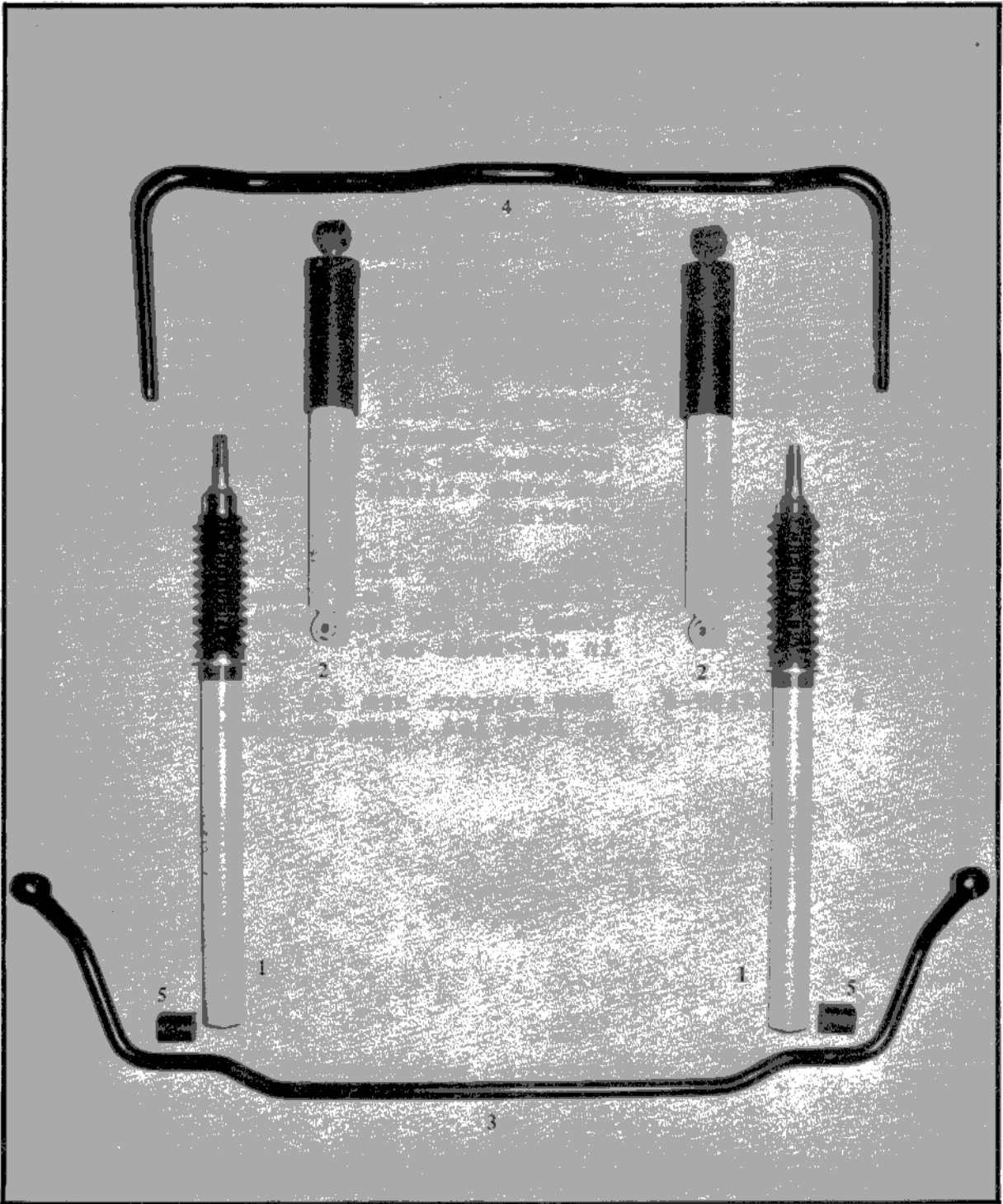
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Pos	Qty	Part No.	Description	Specification
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HEAVY DUTY SUSPENSION PARTS

1	2	552140-6	Extra hard bushing for rear suspension support arms. Eliminates any tendency for rear suspension to shift during cornering, braking or acceleration.	
2	2	552141-4	Stainless steel lower shock absorber mounting bolt. Recommended for heavy duty use with stiffer shock absorber.	
3	2	552138-0	Rear support arm for 1967 to 1970 164. Reinforced, boxed and for zero twist in off-road use.	
	2	552139-8	Rear support arm for 1971 to 1974 164. Same as above.	



VOLVO

*Competition
Service*

PROD	SECTION
240/260 Series Suspension	5
	NO.
	11
DATE	
May, 1977	

Pos	Qty	Part No.	Description	Specification
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SHOCK ABSORBERS

1	2	552195-0	Roadsport gas pressure shock, front. Firm but comfortable.	
2	2	552196-8	Roadsport gas pressure shock, rear.	

ANTI-SWAY BARS

	1	552096-0	Anti-sway bar kit.*	
3	1	552097-8	x Anti-sway bar, front. 21mm.*	
4	1	552098-6	x Anti-sway bar, rear. 25mm.**	
5	2	1228841-1	x Rubber bushing for 552097-8.	

Anti-sway bar kit reduces body roll in cornering and adds greater stability in directional change and cross winds. The handling becomes more neutral and the ride slightly firmer.

*Front bar does not fit 260 series.

**Rear bar does not fit 1977 models.

