



# WORKSHOP MANUAL

**NEVADA 350**

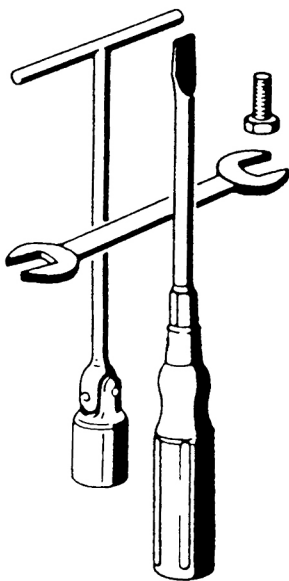
**NEVADA 750**

**750 SP**

**Targa  
750**

**750 NTX**

**750 X**  
PUBLIC SERVICES



COD. 31 92 01 61

Variations to the Manual for models V35 II - V35 IMOLA - V35C - V50 III - V50  
MONZA - V50 C - V65 SP - Cod. 23 92 01 81

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## 1.1 NEVADA 350 - NEVADA 750 - 750 SP - TARGA 750 - 750 NTX -750 X P.A.

	NEVADA 350	NEVADA 750	750 SP	TARGA 750	750NTX	750X P.A.
<b>ENGINE</b>						
Cycle				4-stroke		
N° cylinders				2		
Cylinder configuration				90° V-twin		
Bore	66 mm			80 mm		
Stroke	50.6 mm			74 mm		
Displacement	346.22 cc			743.9 cc		
Compression ratio	10.6:1			9.6:1		
Max. power	22 Kw (30 hp) at 8200 rpm			35 kw (48 hp) at 6200 rpm		
Tax rating	6 hp			10 Hp		
<b>Valve gear</b>				O.H.V. push rod operated rocker arms		
Valve gear data:						
Intake				Opens 18° before TDC Closes 50° after BDC		
Exhaust				Opens 53° before BDC Closes 15° after TDC		
Valve timing clearance check				1 mm		
Rocker arm/valve working clearance:						
- intake:				0.15 mm		
- exhaust:				0.20 mm		
<b>Lubrication</b>				Pressure fed by gear pump with low oil warning lamp on instrument panel. Oil filters: wire mesh inside sump and replaceable cartridge filter outside sump.		
<b>Ignition</b>				Electronic		
Ignition advance (static)	1°			7°		
Automatic advance (electronic)				30° approx.		
Full advance (static + automatic)	32°±2°			38°±2°		
Rotor-pick-up gap				0.2 ÷ 0.3 mm		
Spark plugs	BOSCH W5DC			Champion N3C; NGK B8ES		
Spark plug gap				0.6 mm		
<b>Carburetors</b>						
2 Dell'Orto carburetors	PHBH 28 BD/BS			PHBH 30 BD/BS		
<b>Exhaust</b>				2 pipes and 2 connected silencers		2 pipes, 1 central silencer, 1 end silencer
<b>Generator/alternator</b>				On front of crankshaft (14 V - 20 A)		
<b>Starting</b>				Electric starter (12 V - 1.2 kw) with solenoid engagement		
<b>TRANSMISSION DATA</b>						
<b>Clutch</b>				Single driven disk, dry type with spring; hand controlled by lever on left-hand side of handlebars.		

	NEVADA 350	NEVADA 750	750 SP	TARGA 750	750NTX	750X P.A.
<b>Primary drive</b>						
By gears, ratio:	1:1.8461 (t/r=13/24)	1:1.3125 (tooth ratio=16/21)		1:1.4666 (tooth ratio=15/22)		
<b>Transmission</b>	5 speeds, frontal engagement, constant mesh gears. Pedal operated on central left-hand side of the motorcycle.					
Gear ratios: Low gear	1:2.3636 (tooth ratio = 11/26)					
2nd gear	1:1.6428 (tooth ratio = 14/23)					
3rd gear	1:1.2777 (tooth ratio = 18/23)					
4th gear	1:1.0555 (tooth ratio = 18/19)					
High gear	1:0.9000 (tooth ratio = 20/18)					
<b>Final drive</b>	By shaft with universal joint and gear set					
Ratio:	1:3.875 (tooth ratio = 8/31)					
Overall gear ratios (engine-wheel):						
Low gear	1:16.9083	1:12.0213		1:13.4333		
2nd gear	1:11.7519	1:8.3555		1:9.3369		
3rd gear	1:9.1402	1:6.4987		1:7.2650		
4th gear	1:7.5506	1:5.3685		1:5.9990		
High gear	1:6.4382	1:4.5773		1:5.1150		
<b>FRAME</b>	Cradle, tubular structure.					
<b>Suspension</b>						
Front	Telescopic forks with oleo shock absorbers			Telescopic forks with hydraulic shock absorbers.		
Rear	Swinging arm with two shock absorbers springs and adjustable hydraulic damper absorbers.	Swinging arm with adjustable concentric springs on the hydraulic with adjustable preloaded.		Swinging arm with adjustable concentric springs on the shock absorbers oleo shock.		
<b>Wheels</b>	Spoked, with steel rims					
Front	2.15x18"		Light alloy cast		Spoked, with aluminum rims	
Rear	2.50x16"		MT H2-2.50x18"		Spoked with steel rims	
			MT H2-2.75x18"		WM 1.6x21"	
					WM 2.15x18"	
					2.15x18"	
					2.50x16"	
					2.50x16"	
<b>Tyres</b>						
Front	100/90-H18"		100/90 V 18		300 S 21"	
Rear	130/90-H16"		120/80 V 18		400 S 18"	
					100/90-H18	
					130/90-H16	
<b>Brakes</b>						
Front	Disk with caliper, twin brake cylinder. Brake lever on right handlebar.					
Ø disk	270 mm			260 mm		
Ø brake cylinder	32 mm			32 mm		
Ø master cylinder	13 mm			11 mm		
<b>Rear</b>	Disk with caliper, twin brake cylinder. Brake pedal on center-right of motorcycle.					
Ø disk	260 mm		235 mm		260 mm	
Ø brake cylinder	32 mm		32 mm		32 mm	
Ø master cylinder	12.7 mm		15.875 mm		12.7 mm	
	The rear brake is connected to the front left brake by hydraulic transmission, with the dimensions of the single components being the same as for the front (right) hand controlled brake.					

**Dimensions and weight**

Wheelbase (loaded) (m)

Overall length (m)

Overall width (m)

Overall height (m)

Weight (dry) (kg)

**Performance**

Max. speed with one rider (km/h)

Fuel consumption (lt/100 km)

	NEVADA 350	NEVADA 750	750 SP	TARGA 750	750NTX	750X P.A.
Wheelbase (loaded) (m)		1.482	1.480	1.480	1.480	1.480
Overall length (m)		2.215	2.155	2.130	2.200	2.200
Overall width (m)		0.880	0.750	0.750	0.850	0.850
Overall height (m)		1.165	1.405	1.270	1.490	1.445
Weight (dry) (kg)		170	180	180	180	187
Max. speed with one rider (km/h)	150	170 approx.	170 over	185 over	170 over	155
Fuel consumption (lt/100 km)	6.4	5.3	5.8	6.1	5.8	6

## 1.2 Fuel/oil details

### NEVADA 350/750

Description	Quantity (liters)	Recommended products
Fuel tank (reserve approx 4 lt.)	16	Supergrade petrol (97 NO-RM/min.)
Oil sump	2	"Agip nuovo SINT 2000 SAE 10 W/40" oil
Transmission	1 *	"Agip Rotra MP SAE 80 W/90" oil *
Secondary drive box	0.170 of which: 0.160 0.010	"Agip Rotra MP SAE 85 W/140" oil "Agip Rocol ASO/R" oil or "Molykote type A" oil
Front fork (each leg)	0.100	"Agip ATF Dexron" fluid
Braking circuits (front and rear)	—	"Agip Brake Fluid - Super HD"

### 750 SP

Description	Quantity (liters)	Recommended products
Fuel tank (reserve approx 2 lt.)	18	Supergrade petrol (97 NO RM/min.)
Oil sump	2	"Agip nuovo SINT 2000 SAE 10 W/40" oil
Transmission	1 *	"Agip Rotra MP SAE 80 W/90" oil *
Secondary drive box	0.170 of which: 0.160 0.010	"Agip Rotra MP SAE 85 W/140" oil "Agip Rocol ASO/R" oil or "Molykote type A" oil
Front fork (each leg)	0.100	"Agip ATF Dexron" fluid
Braking circuits (front and rear)	—	"Agip Brake Fluid - Super HD"

### TARGA 750

Description	Quantity (liters)	Recommended products
Fuel tank (reserve approx 2 lt.)	18	Supergrade petrol (97 NO-RM/min.)
Oil sump	2	"Agip nuovo SINT 2000 SAE 10 W/40" oil
Transmission	1 *	"Agip Rotra MP SAE 80 W/90" oil *
Secondary drive box	0.170 of which: 0.160 0.010	"Agip Rotra MP SAE 85 W/140" oil "Agip Rocol ASO/R" oil or "Molykote type A" oil
Front fork (each leg)	0.100	"Agip ATF Dexron" fluid
Braking circuits (front and rear)	—	"Agip Brake Fluid - Super HD"

### 750 NTX / 750 X P.A.

Description	Quantity (liters)	Recommended products
Fuel tank (reserve approx 11 lt.)	30	Supergrade petrol (97 NO-RM/min.)
Oil sump	2	"Agip nuovo SINT 2000 SAE 10 W/40" oil
Transmission	1 *	"Agip Rotra MP SAE 80 W/90" oil *
Secondary drive box	0.170 of which: 0.160 0.010	"Agip Rotra MP SAE 85 W/140" oil "Agip Rocol ASO/R" oil or "Molykote type A" oil
Front fork (each leg)	0.460	Shock absorber oil (SAE 20)
Braking circuits (front and rear)	—	"Agip Brake Fluid - Super HD"

\* These data update and amend all previous publications for the V35/50/65/70 series.

### 2.1 Engine lubrication (fig. 314)

#### Checking the oil level

Check the crankcase oil every 500 km (the oil should reach the "Max" mark on the dipstick welded to the plug "A").

If the oil is below this level, top up with the recommended type and grade of oil.

The oil level check should be carried out after the engine has run for a few minutes; the plug "A" with dipstick should be screwed fully home.

#### Oil change

The oil should be changed after the first 500÷1500 km and then every 3000 km. change the oil when the engine is warm.

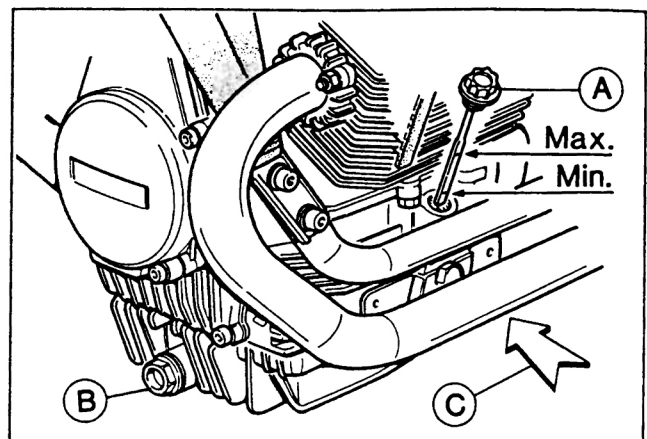
Remember to allow the sump to drain fully before filling up with new oil.

"A" Oil filler plug with dipstick.

"B" Front oil drain plug.

"C" Rear oil drain plug.

Oil required: 2 liters of "Agip Nuovo SINT 2000 SAE 10 W/40".



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### 2.2 Changing the crankcase sump oil filter cartridge (fig. 315)

The oil filter cartridge should be changed after the first 500÷1500 km (first oil change) and then every 6000 km approx., with the following procedure:

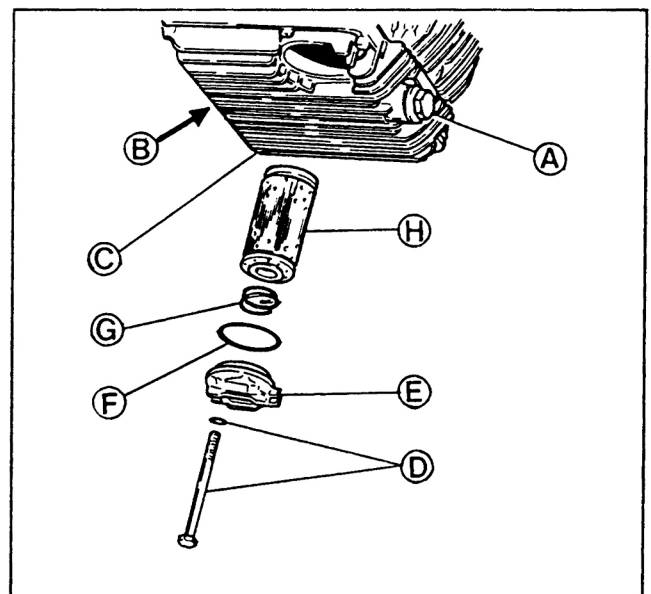
■ unscrew the drain plugs "A" and "B" from the sump "C" and the filler plug ("A" in fig. 314);

■ allow the oil to drain off fully from the sump;

■ unscrew the cartridge attaching screw with washer "D" and remove the assembly, including the cover "E", gasket "F", spring "G" and mesh filter "H" from the sump.

■ replace the filter "H" and the oil seal "F".

When finished, re-assemble by following the instructions in reverse order, fill up with the correct quantity of oil and then screw the filler cap tight on to the filler hole.



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### 2.3 Transmission lubrication (fig. 316)

#### Checking the oil level

Check the oil level every 3000 km, using the method shown in the diagram; if the oil is below the correct level, top up with the recommended grade and type of oil.

#### Oil change

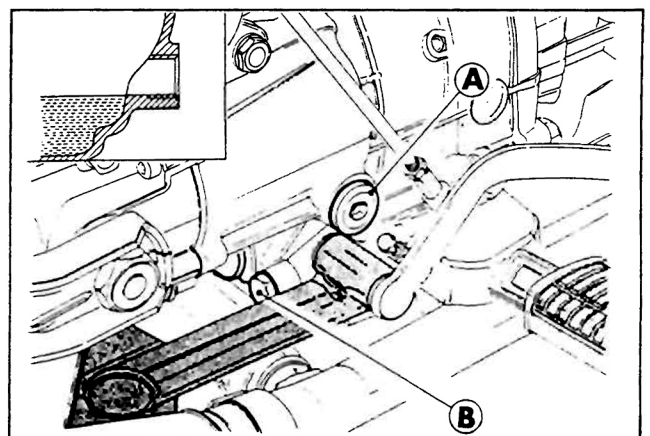
The gearbox oil should be changed every 9000 km approx. Drain the oil when the gearbox is warm as the oil is more fluid and drains more easily.

Remember to allow the gearbox to drain fully before filling with new oil.

"A" Filler and level plug.

"B" drain plug.

Quantity required: 1 liter of "Agip Rotra MP SAE 80 W/90" oil.

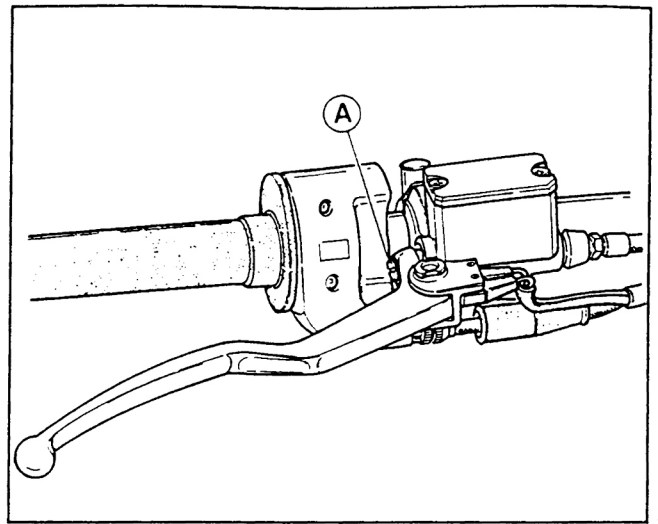


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## 2.4 Front brake lever adjustment (fig. 317)

There should be a certain amount of play between the master cylinder and the tip of the control lever. Turn screw "A" to adjust the play.



317

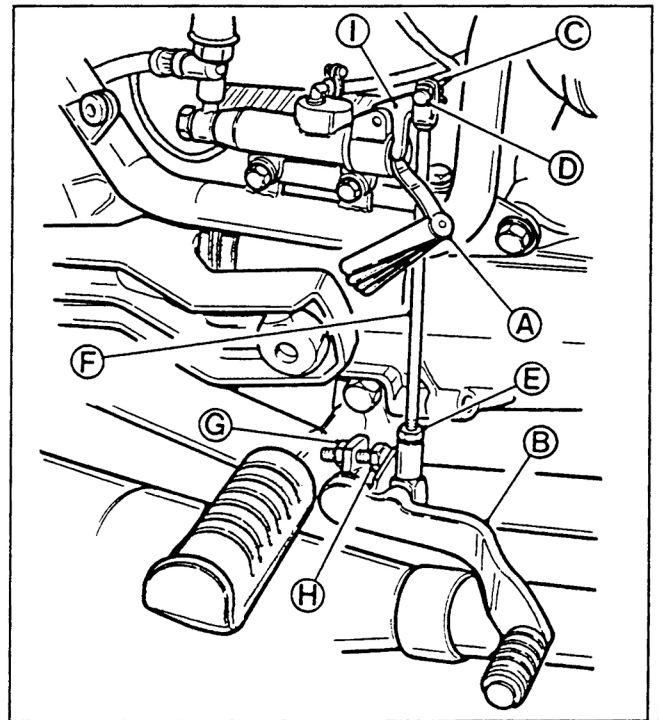
## 2.5 Brake pedal adjustment NEVADA 350/750 - 750 SP - TARGA 750 (fig. 318)

Check the clearance between the master cylinder and lever "I" as follows:

- insert a feeler gauge "A" between the master cylinder piston and the lever end;
- the correct clearance is  $0.05 \pm 0.15$  mm;
- if the clearance is not correct it is necessary to:
- to reset the clearance, loosen locknut "G" and adjust screw "H" as necessary.

To alter the height of the brake pedal "B":

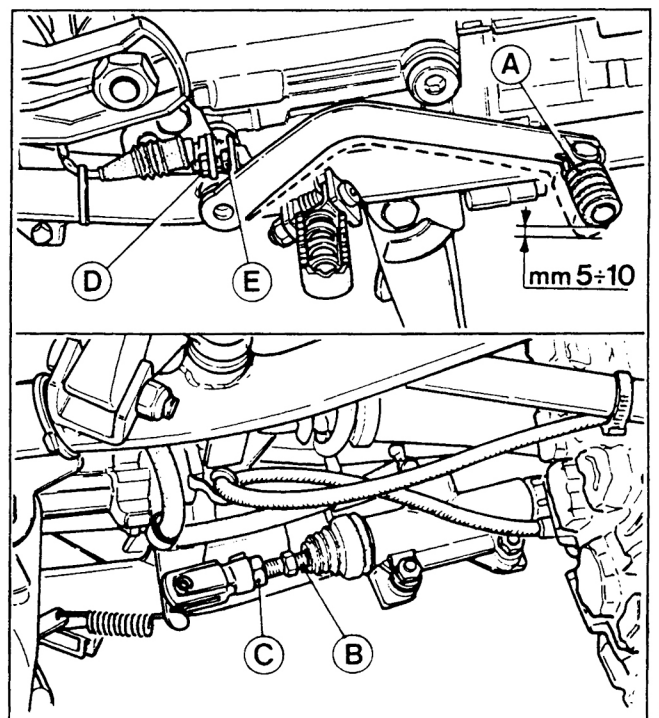
- remove split pin "C", slide out pin "D", loosen locknuts "E" and screw tie-rod "F" in or out as required;
- replace pin "D" along with split pin "C";
- then adjust screw "H" to reset the clearance between master cylinder and lever "I".



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## 2.6 Rear brake pedal adjustment 750 NTX - 750 X P.A. (fig. 318/A)

Check that pedal "A" has about 5-10 mm free travel before the end of rod "B" starts to act on the master cylinder float; to reset the travel, alter the length of rod "B" by screwing it in or out, after loosening locknut "C". To alter the position of pedal "A", loosen off locknut "D" and screw the screw "E" in or out, adjusting the length of rod "B", to achieve the correct play.



318/A

## 2.7 Maintenance and lubrication service schedule

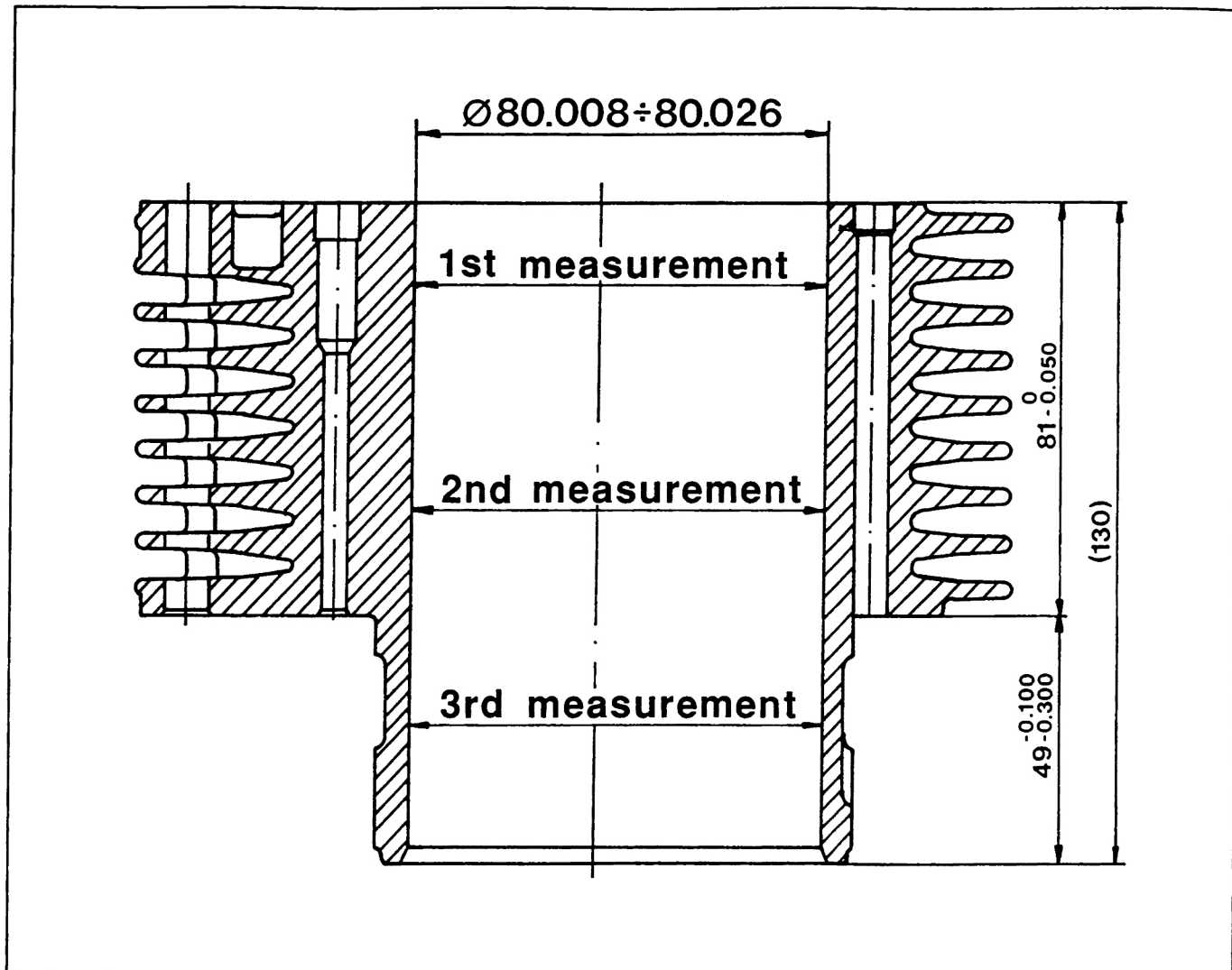
ITEMS	MILEAGE COVERED	1500 km	3000 km	6000 km	9000 km	12.000 km	15.000 km	18.000 km	21.000 km	24.000 km	27.000 km	30.000 km
Engine oil		R	R	R	R	R	R	R	R	R	R	R
Oil filter cartridge		R		R		R		R		R		R
Wire gauze oil filter		C					C					C
Air filter				C	R		C	R		C	R	
Ignition timing		A										
Spark plugs		A	A	A	R	A	A	R	A	A	R	A
Rocker clearance		A	A	A	A	A	A	A	A	A	A	A
Carburation		A	A	A	A	A	A	A	A	A	A	A
Nuts and bolts		A					A					A
Fuel tank, filters and pipes					C			C			C	
Gearbox oil		A	A	A	R	A	A	R	A	A	R	A
Rear drive box oil		A	A	A	R	A	A	R	A	A	R	A
Wheel and steering bearings									A			
Front forks oil (750 SP-TARGA 750 ( NEVADA 350/750 )									R			
Front forks oil (750 NTX - 750 X P.A.)						R				R		
Starter motor and generator									A			
Brake system fluid		A	A	A	A	A	R	A	A	A	A	R
Brake pads		A	A	A	A	A	A	A	A	A	A	A

**A** = Maintenance - Inspection - Adjustment - Possible replacement./**C** = Cleaning./**R** = Replacement.

Occasionally check the electrolyte level in the battery and lubricate control joints and cables; every 500 km check the engine oil level.

The oil should be changed at least once a year, in any case.

Periodically check the tautness of the spokes (750 NTX, 750 X P.A., NEVADA).



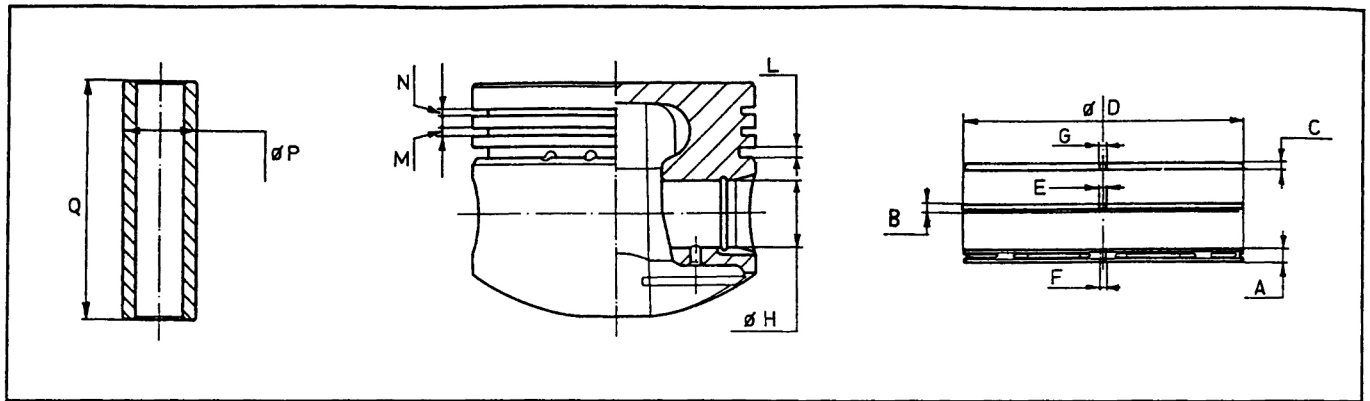
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When fitting new units, the "A-B-C" grade cylinders should be paired with the corresponding pistons from grades "A-B-C". Clearance between pistons and cylinders when fitting:  $0.020 \div 0.032$  mm.

#### CYLINDER Ø GRADING

GRADE "A"	GRADE "B"	GRADE "C"
80,008÷80,014	80,014÷80,020	80,020÷80,026

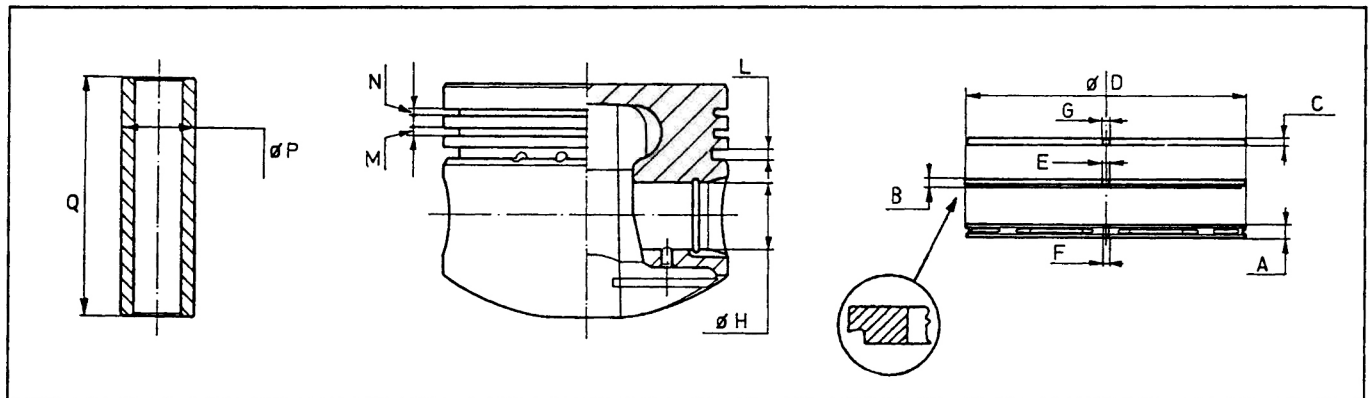
### Series 1 PISTON



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A	B	C	D	E	F	G	H	L	M	N	P	Q
3,990	1,490	1,490	79,982	0,3	0,25	0,3	22,006	4,04	1,54	1,54	21,998	62,970
÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	÷
3,975	1,478	1,478	80,000	0,5	0,50	0,5	22,000	4,02	1,52	1,52	21,994	62,924

### Series 2 PISTON



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A	B	C	D	E	F	G	H	L	M	N	P	Q
3,990	1,990	1,490	79,982	0,3	0,25	0,3	22,006	4,04	2,04	1,54	21,998	62,970
÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	÷
3,975	1,978	1,478	80,000	0,5	0,50	0,5	22,000	4,02	2,02	1,52	21,994	62,924

Production of the series 2 piston started from engine n° LT 10297.

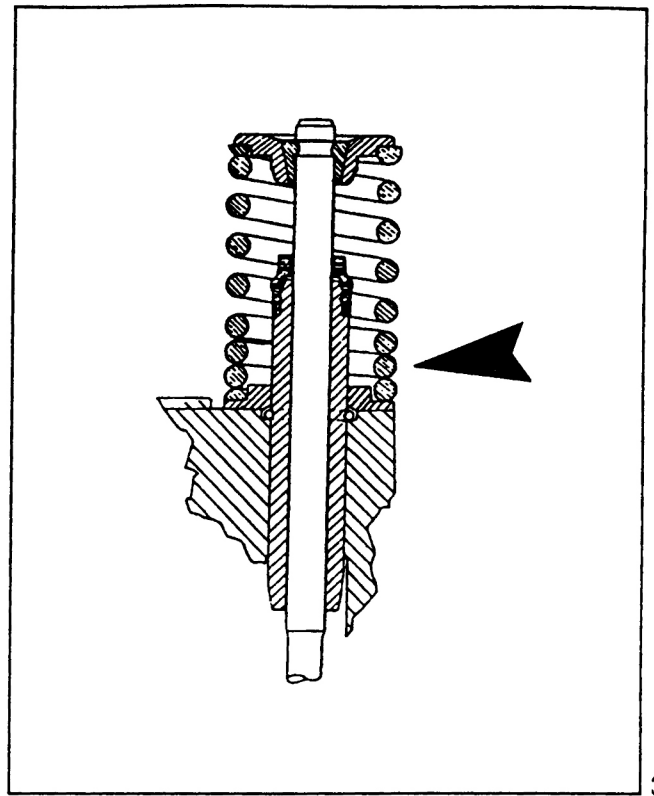
### PISTON Ø GRADING

GRADO «A»	GRADO «B»	GRADO «C»
79,982÷79,988	79,988÷79,994	79,994÷80,000

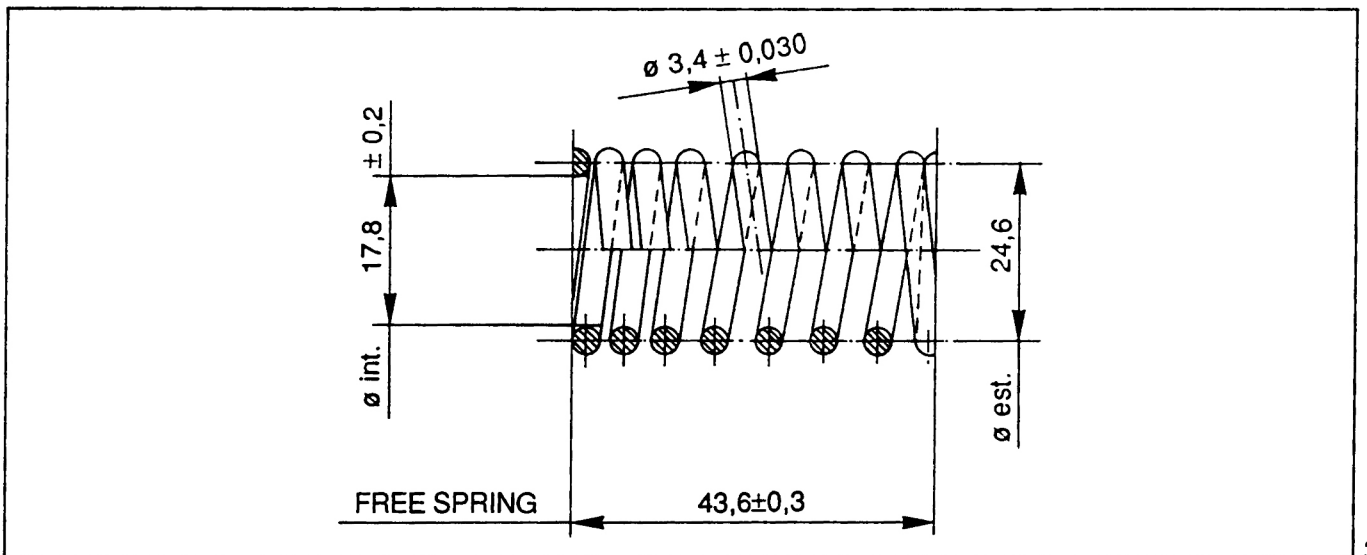
### VALVE SPRINGS

Starting from engine n° 10297, there is a new type of single valve return spring, which replaces the previous double spring system. This modification will also be made to all models in the V35-V50-V65 "BIVALVE" series.

The new valve is the variable pitch type; when fitting, be sure to position the spring on the lower cotter so that the close pitch coils are facing the cylinder head, as indicated by the arrow (fig. 322).

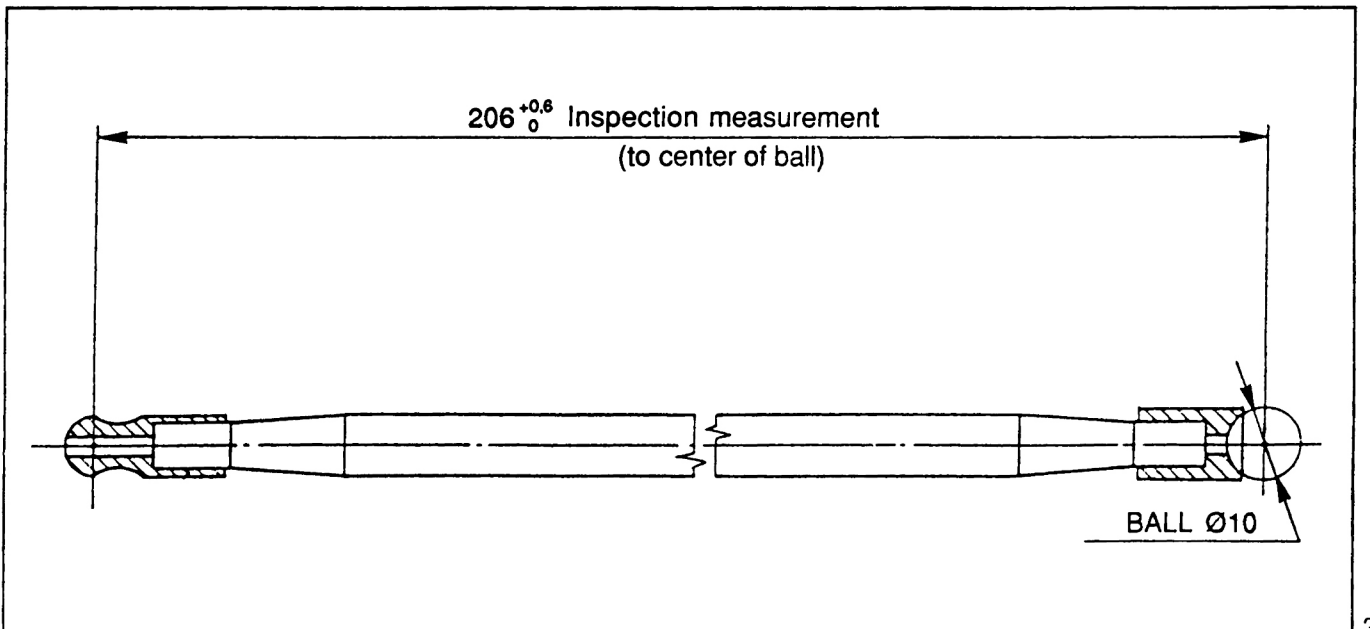


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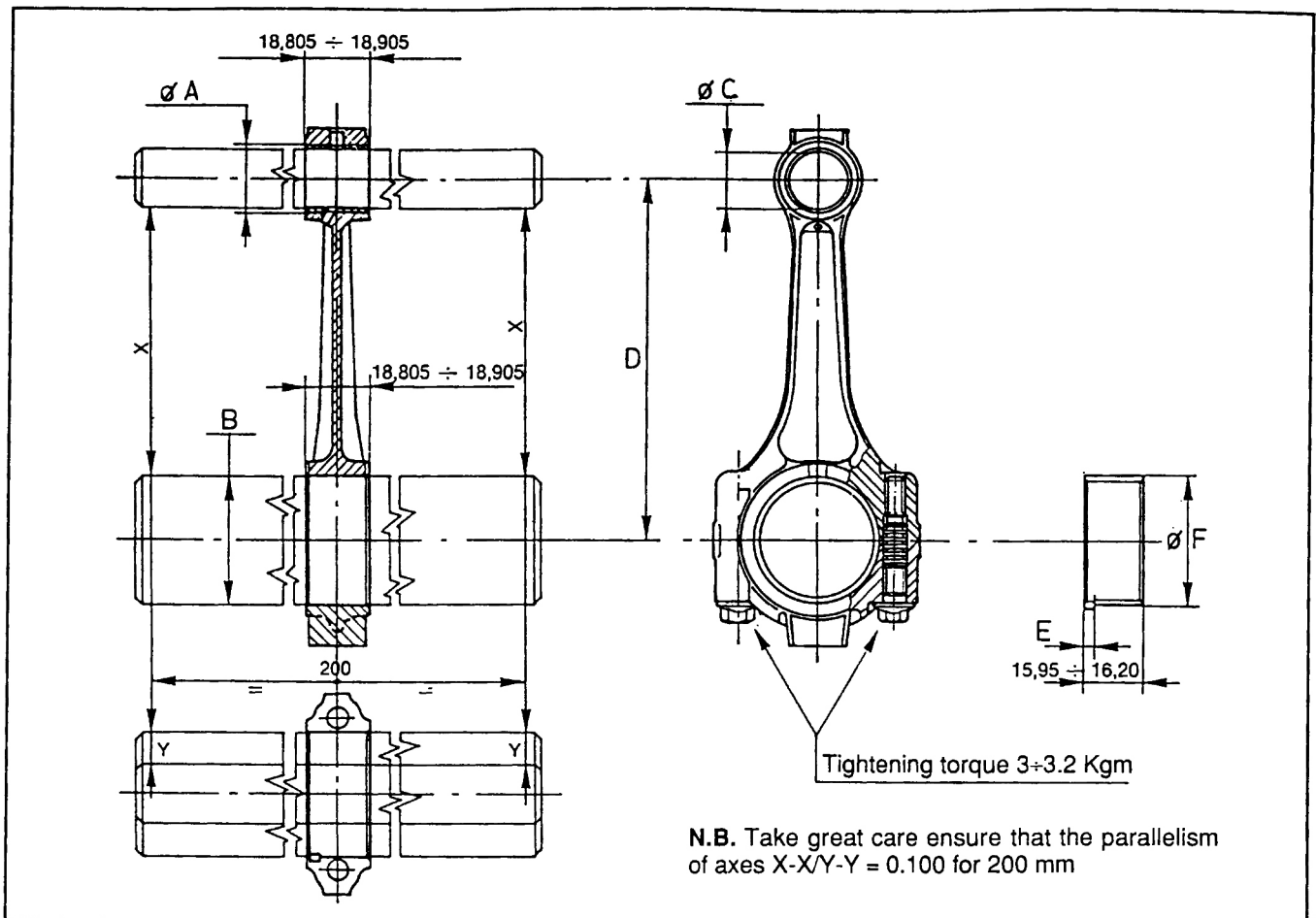


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### ROCKER ARM PUSH ROD



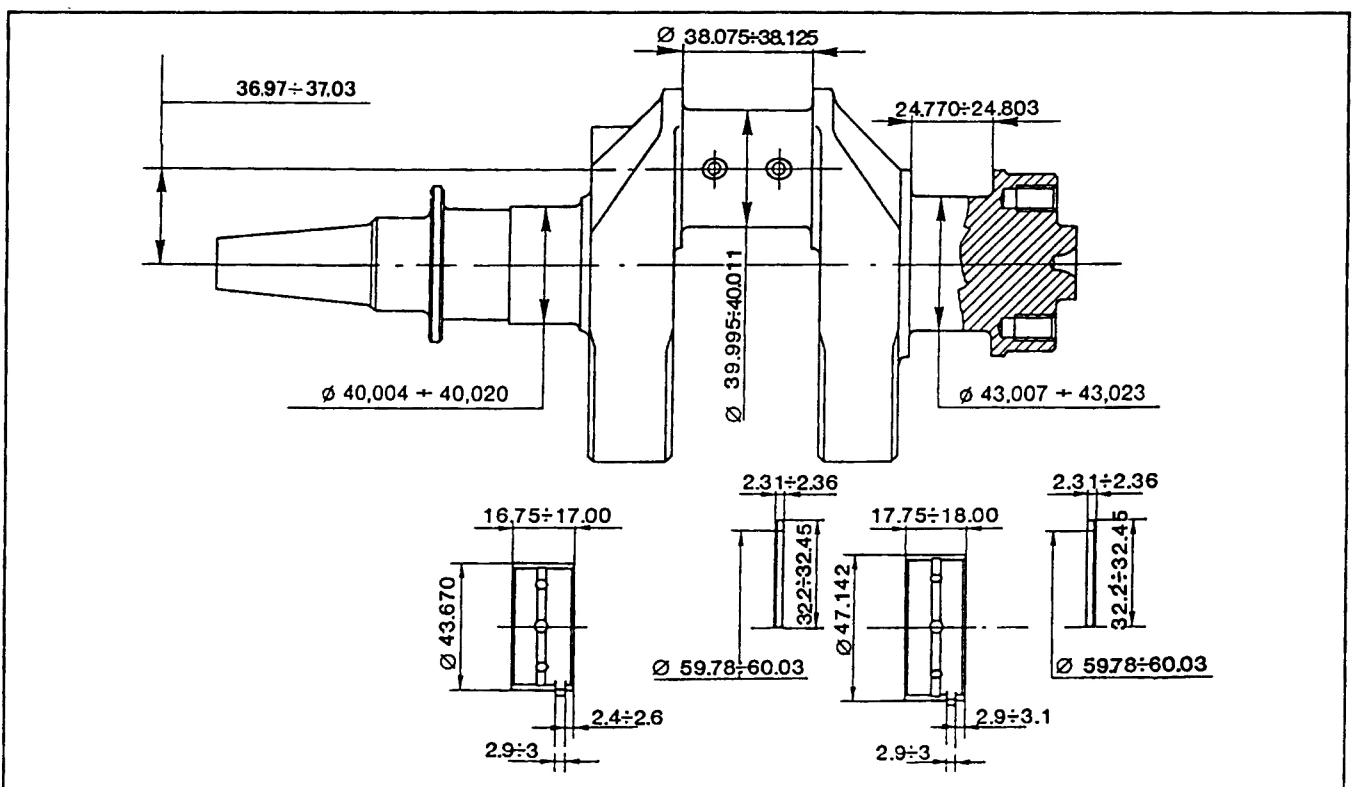
324



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A	B	C	D	E	F
25,000	43,657	22,005	129,95	4,44	43,670
$\div$	$\div$	$\div$	$\div$	$\div$	
25,021	43,670	22,015	130,05	4,57	

For the static balancing of the crank shaft, apply a weight of 1.224 kg to the crank button.

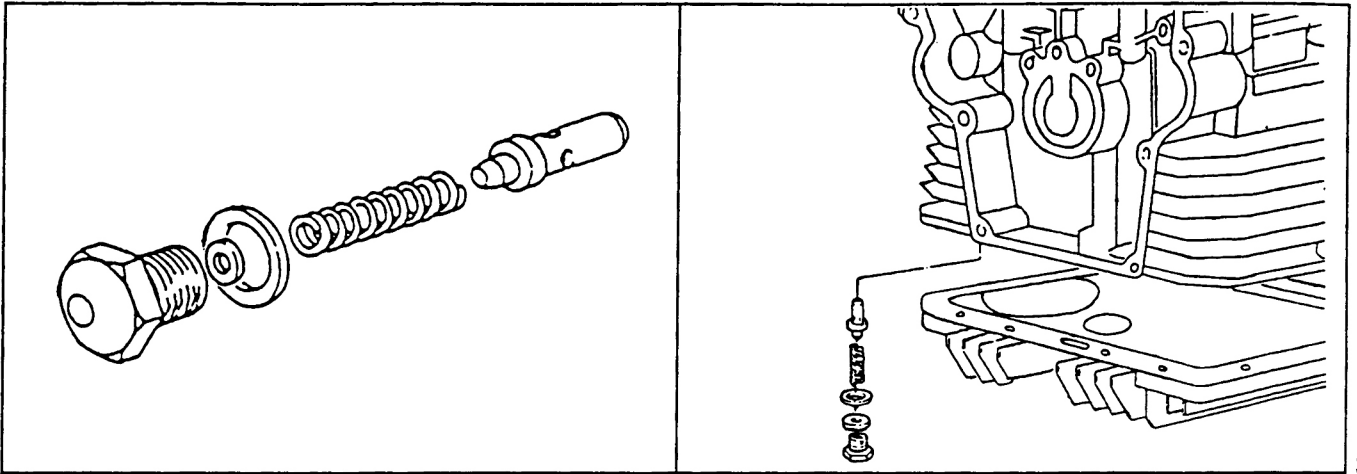


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## 6 LUBRICATION

### 6.1 Oil pressure adjustment valve



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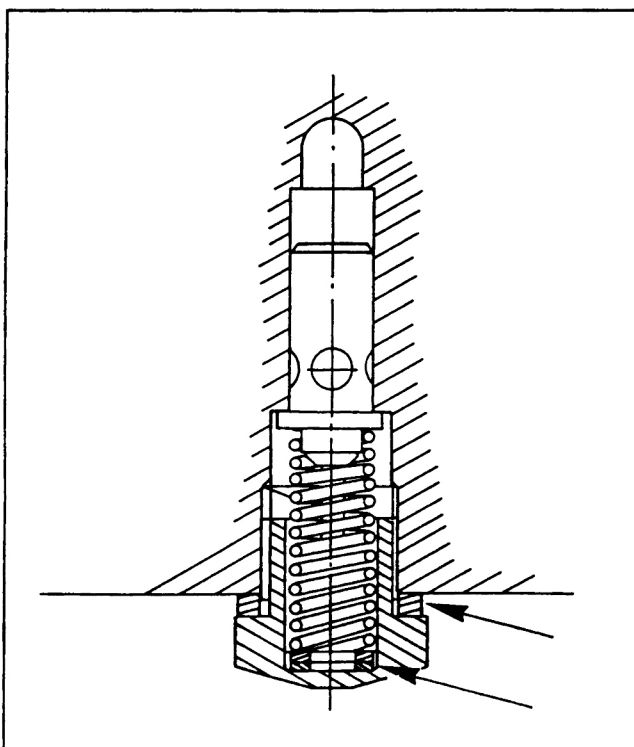
A new oil pressure adjustment valve has been fitted, in the lower part of the engine block.

To modify the valve setting, add or take away the washers indicated by the arrow (fig. 328).

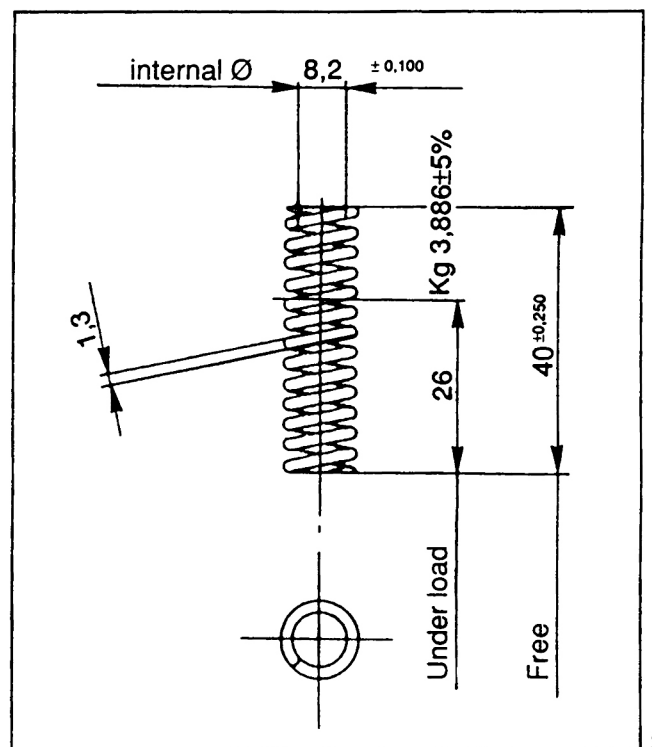
The oil pressure settings are:

3.2÷3.8 kg/sq.cm.

These values update and amend all previous publications for the V35/50/65/70 series.



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## 7 FUEL SYSTEM

### 7.1 Carburetors (fig. 330)

2 Dell'Orto carburetors:

#### NEVADA 350

PHBH 28 BD (right)

PHBH 28 BS (left)

#### NEVADA 750 - 750 SP - TARGA 750 - 750 NTX - 750 X P.A.

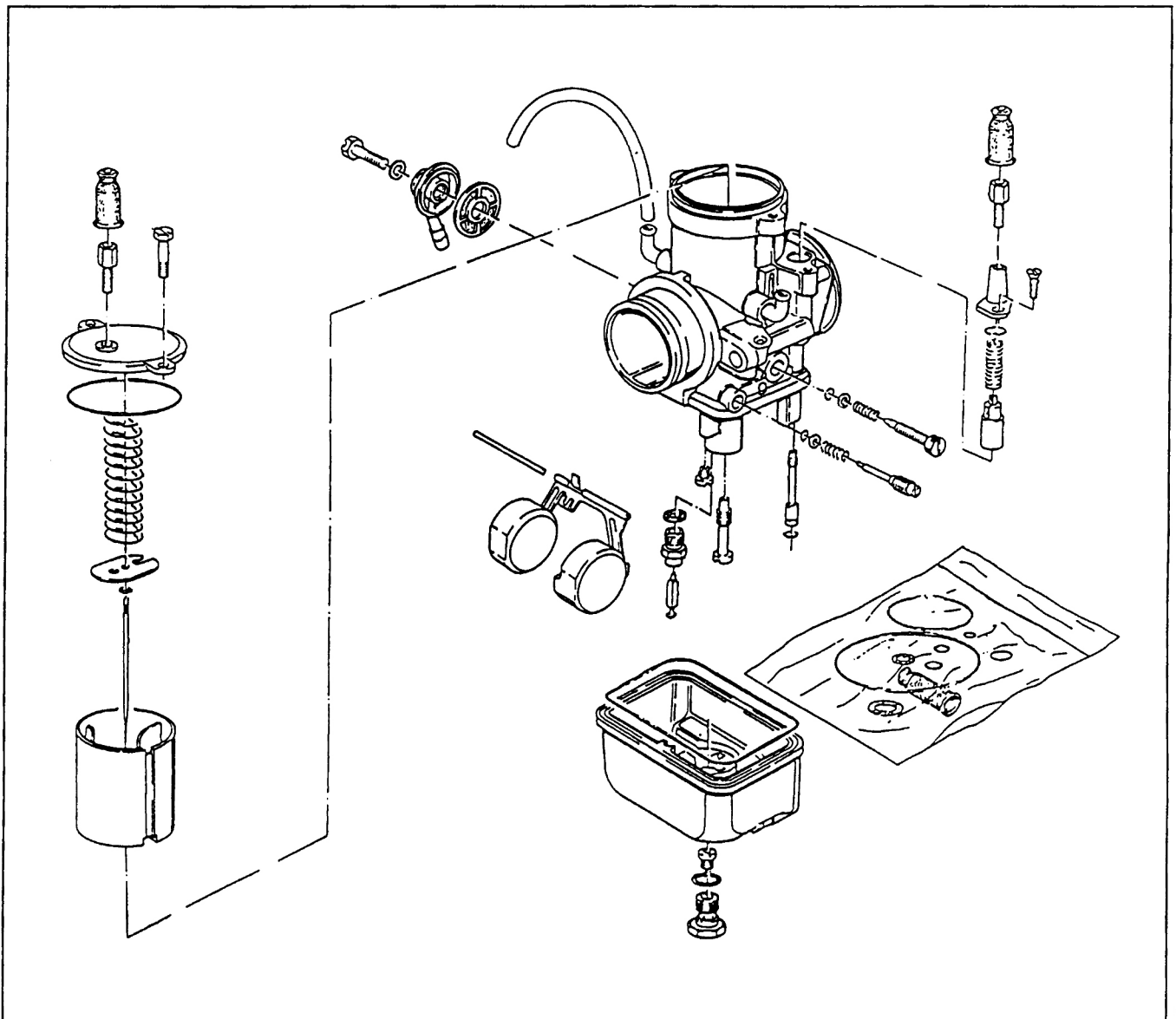
PHBH 30 BD (right)

PHBH 30 BS (left)

#### Carburetor data

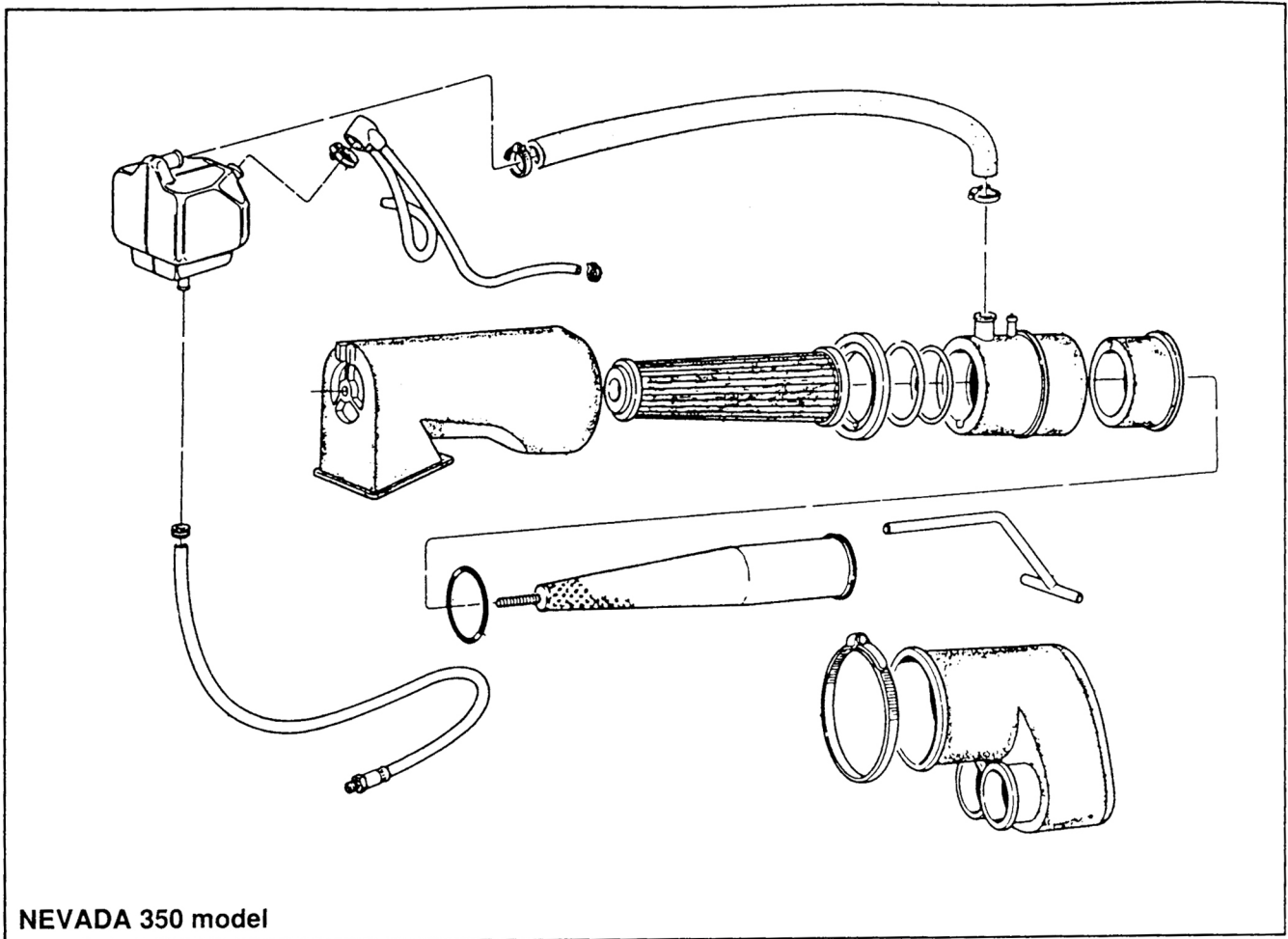
Venturi  
Throttle valve  
Atomizer  
Main jet  
Idle jet  
Starter jet  
Needle  
Float (g)  
Idle screw adjustment: open

	NEVADA 350	NEVADA 750	750 SP-TARGA	750 NTX-X P.A.
Venturi	28	30	30	30
Throttle valve	30	40	40	45
Atomizer	13102-262.28EH	266 T	266 T	268 T
Main jet	105	102	100	105
Idle jet	42	38	38	38
Starter jet	60	60	60	60
Needle	X57 (2nd notch)	X8 (3rd notch)	X8 (2nd notch)	X8 (3rd notch)
Float (g)	9,5	9,5	9,5	9,5
Idle screw adjustment: open	1 1/2 turns	1 1/2 turns	1 1/2 turns	2 turns

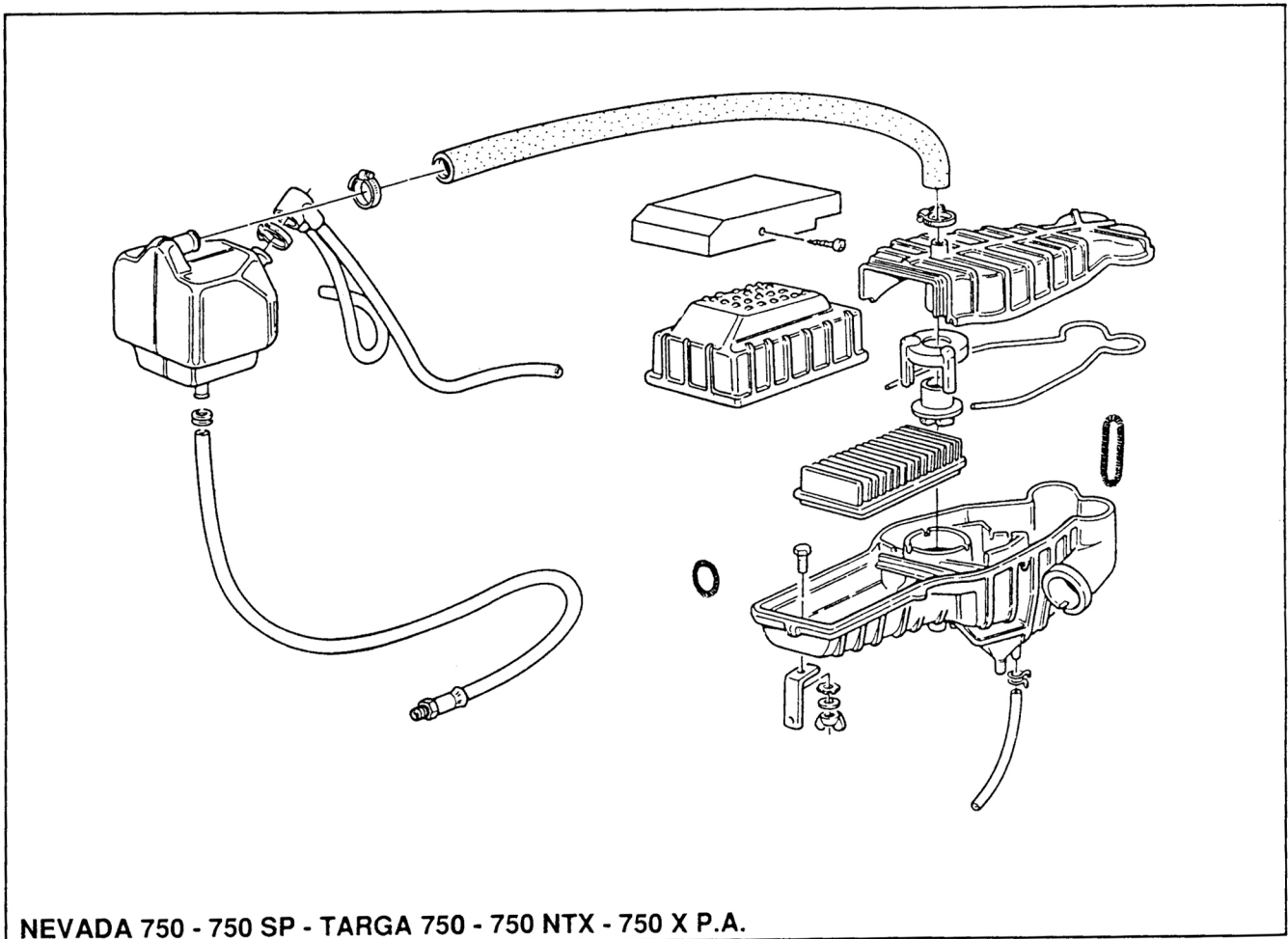




7.2 Air filter and breather assembly with hoses



331



331/A

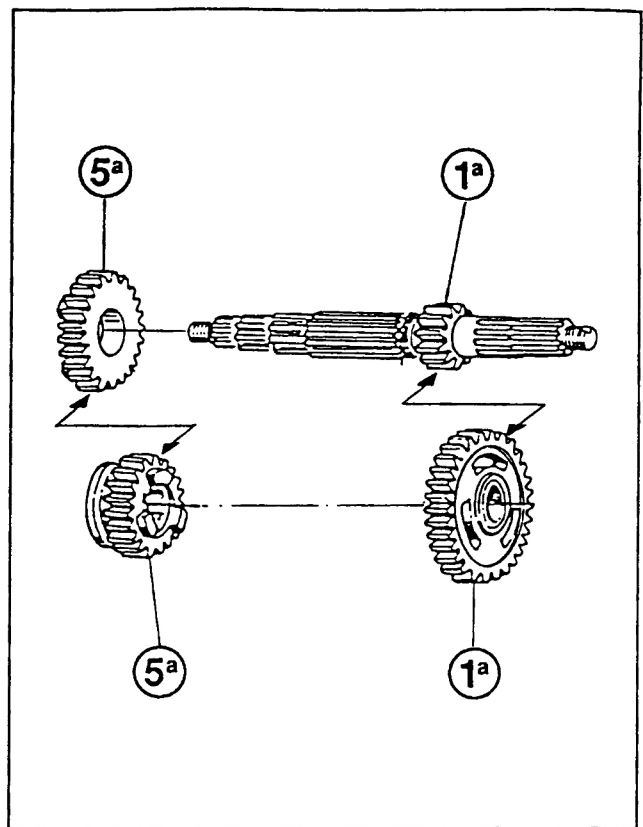
In order to improve the reliability of the 5th gear pair, a modification to the 1st and 5th gears has been brought into production.

The parts that have been changed are shown in fig. 333.

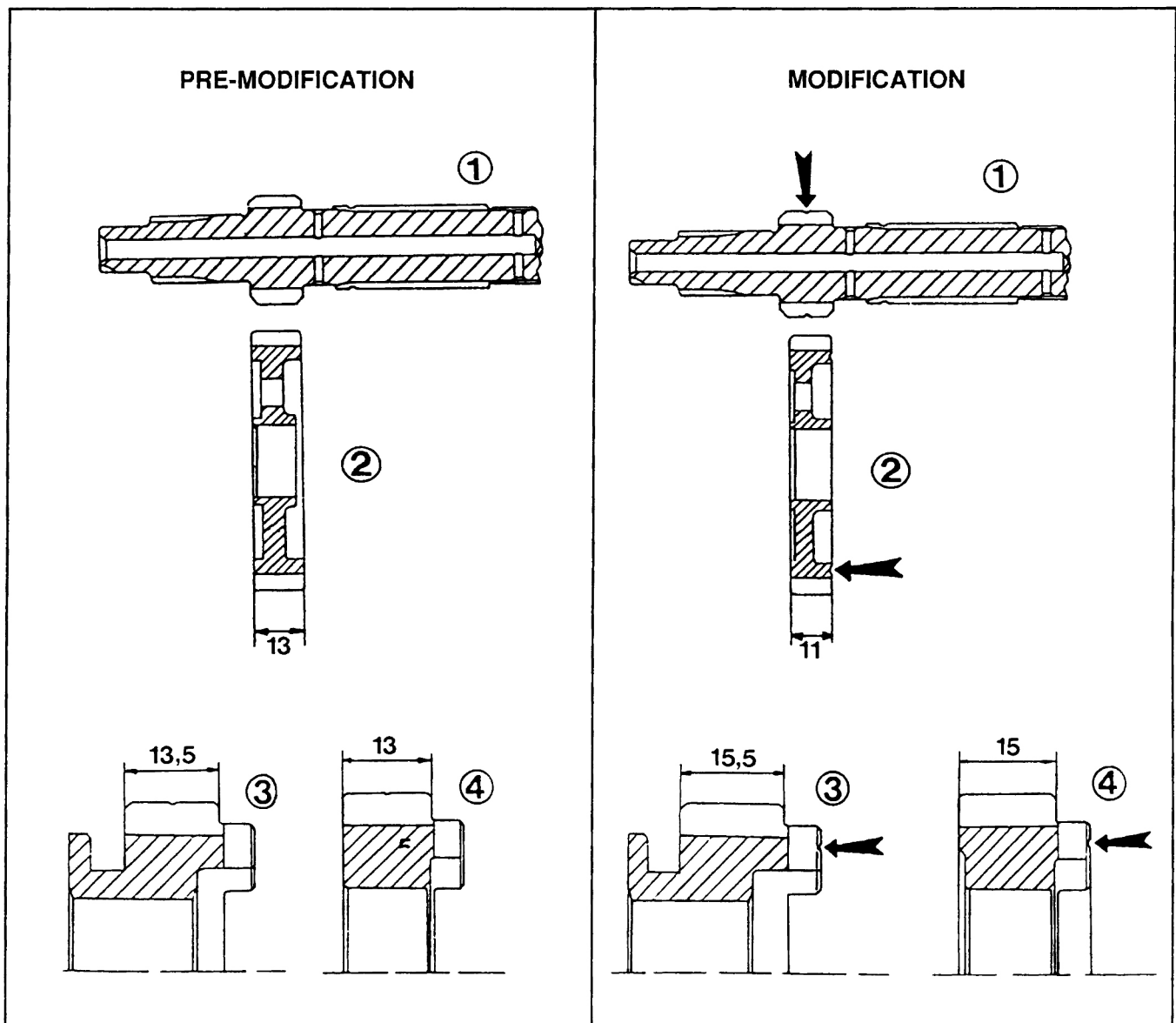
The modification has been brought into production with gear box n° CK 2200, and will also be introduced to the V65 series as soon as possible.

The pre-modification parts are not singly interchangeable with the modified parts, with the sole exception of the new primary drive shaft, which can replace the pre-modification shaft in all aspects, although not vice versa.

N°	NAME OF PART
1	Primary drive shaft (tooth ratio = 11)
2	1st gear final drive shaft (tooth ratio = 26)
3	5th gear final drive shaft (tooth ratio = 18)
4	5th gear primary drive shaft (tooth ratio = 20)



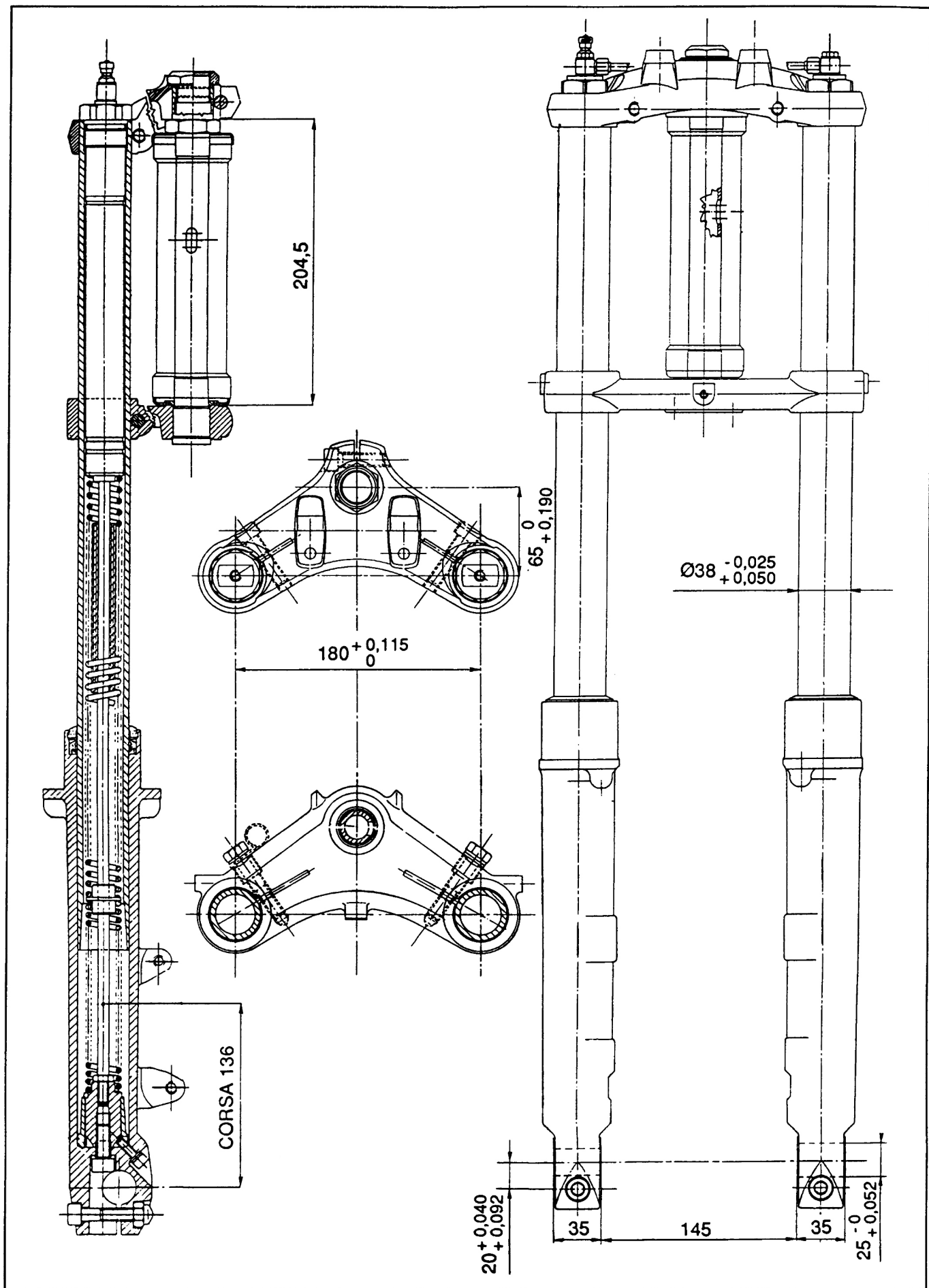
332



333

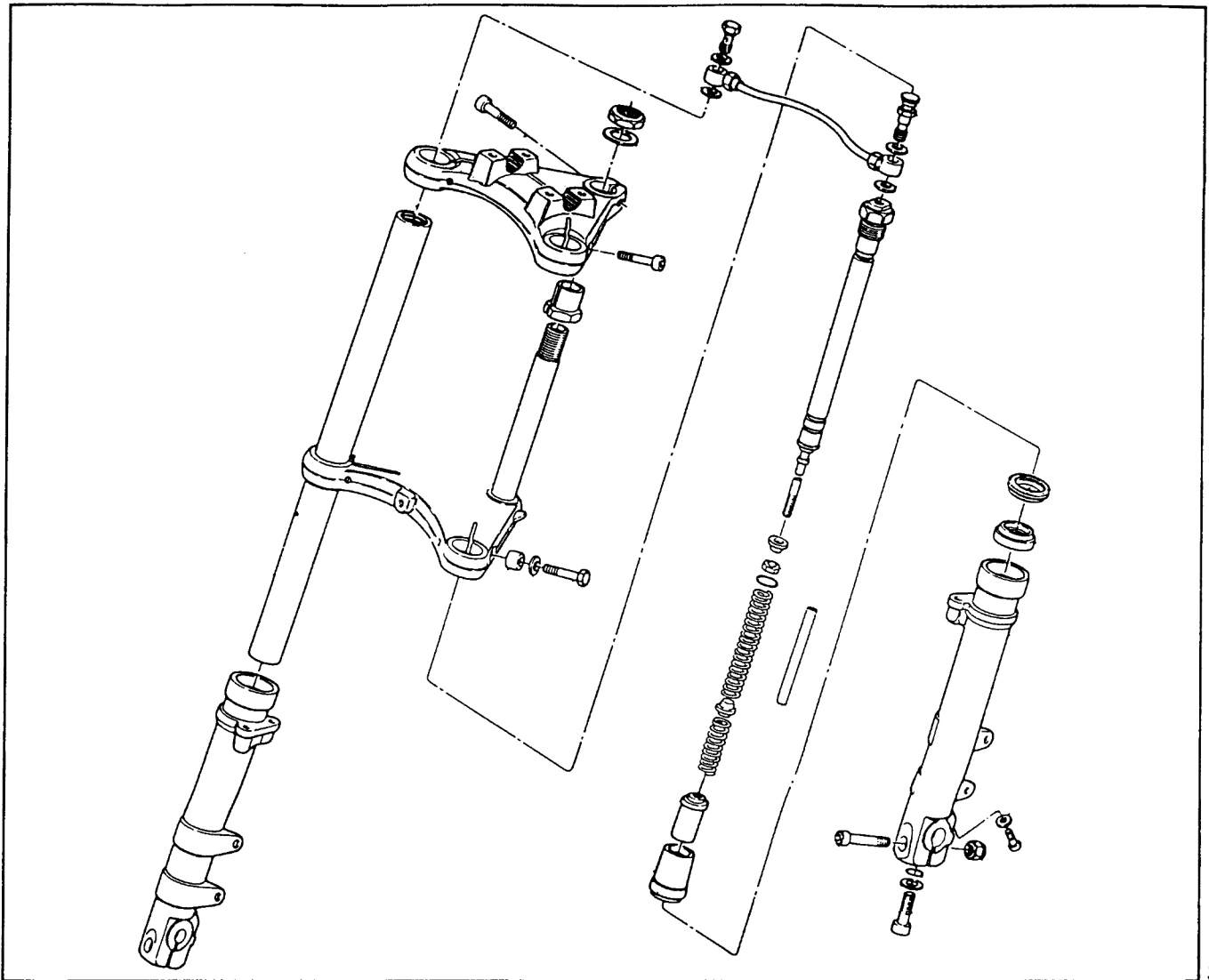
271

## 12.1 NEVADA 350/750 - 750 SP - TARGA 750



334

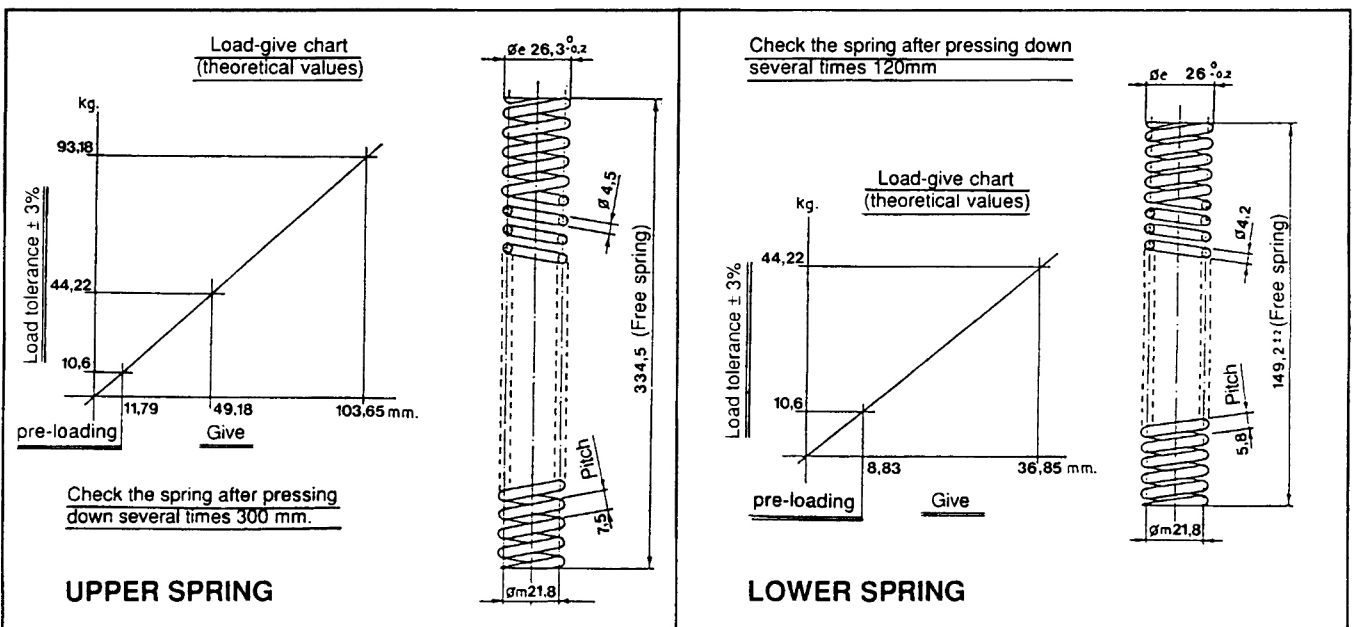
The diagram refers specifically to the TARGA 750 forks; the dimensions are also correct for the NEVADA 350/750 - 750 SP models.



335

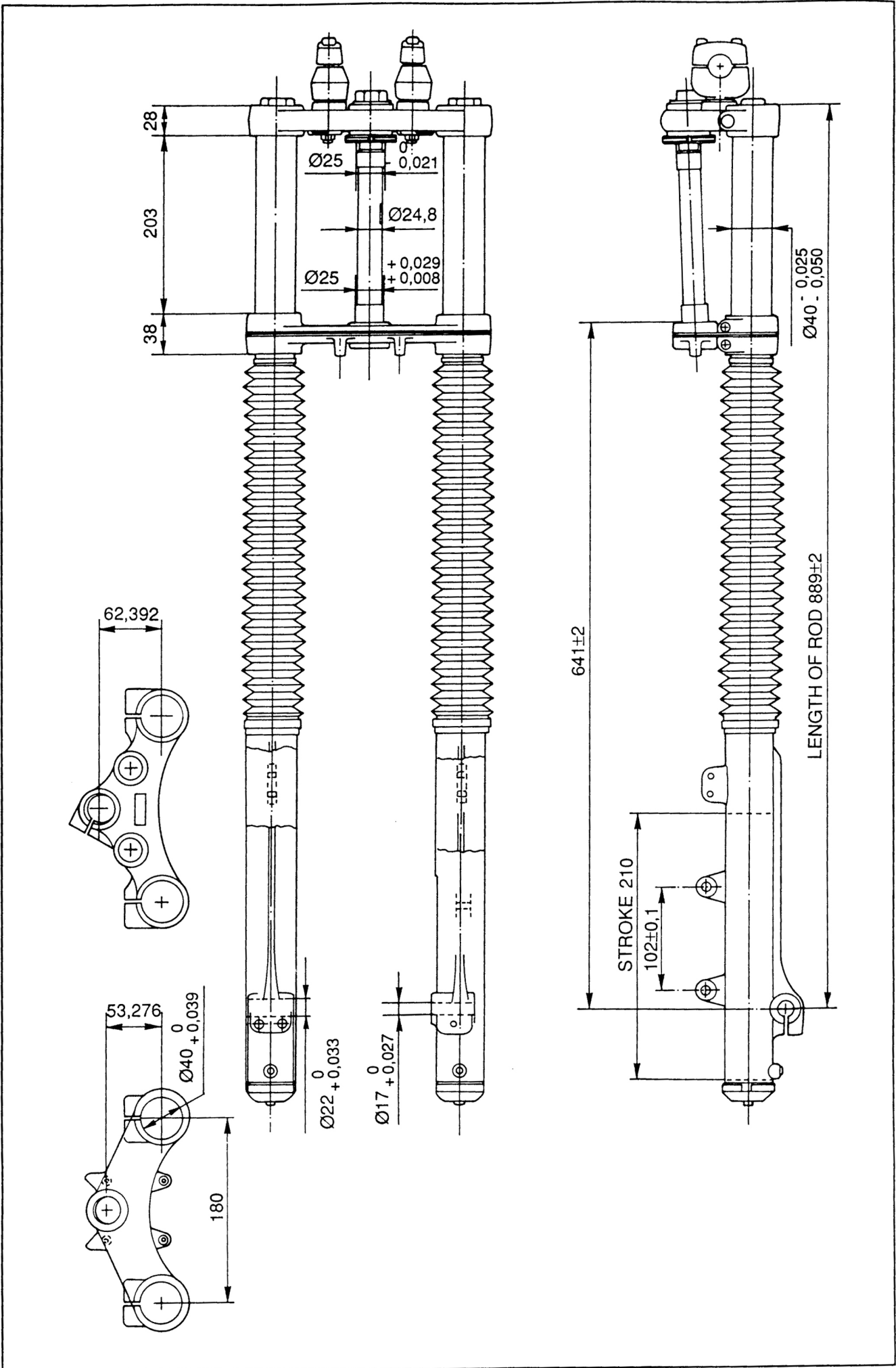
**Technical specifications**

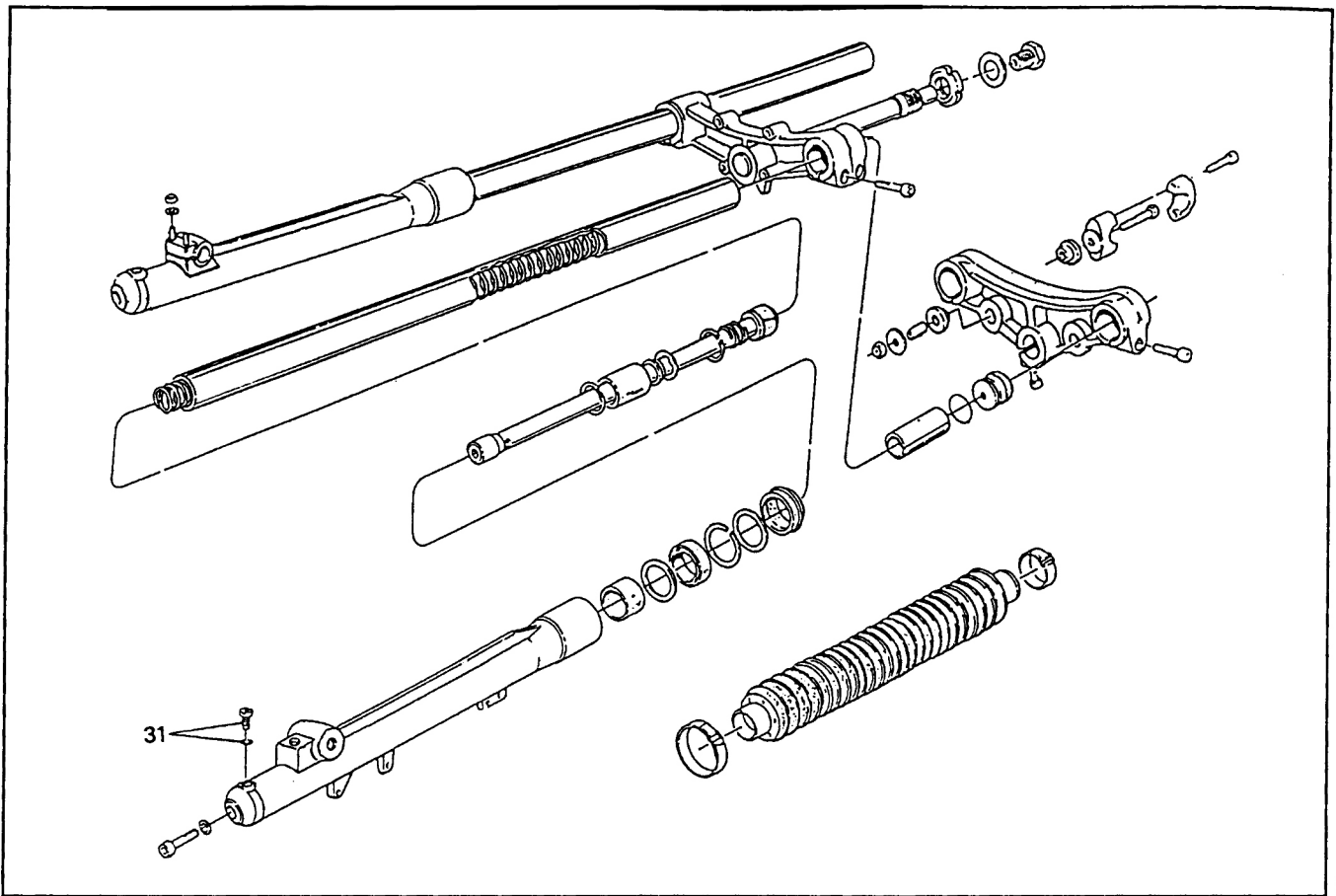
stroke	136 mm
Ø barrel	37.975+37.950
Ø forks (internal)	38.05+38.01
Quantity of oil	100 cu.cm (each fork leg)
shock absorber pressure	1 kg/cm <sup>2</sup>



336

273





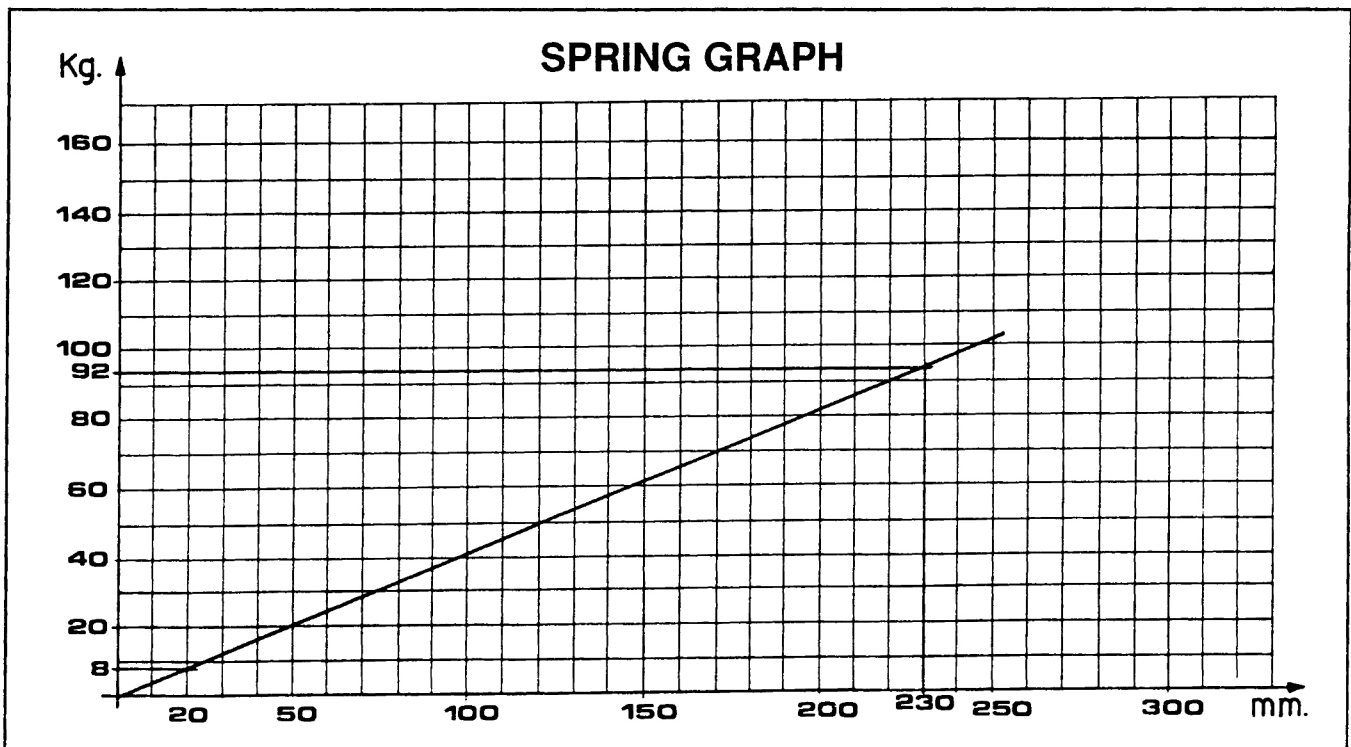
338

If the motorcycle is mainly used on roads, change the oil in the front forks every 12,000 km. For frequent cross-country use, the oil should be changed at shorter intervals.

To change the oil, remove the screw in pos. 31 and pump, pushing on the handlebars, until all the fluid is drained off; unscrew the upper plug with O-ring and fill up with oil from a previously unopened container.

**TECHNICAL SPECIFICATIONS:**

stroke	210 mm
Ø barrel	39.950±39.975
Quantity of oil	460 cu.cm (each fork leg)



339

275

**13.1 Adjusting rear shock absorbers NEVADA 350/750**

To adjust the springs pre-loading, turn ringnut "A" manually (fig. 340).

Turn the nut clockwise, looking from above, to increase the pre-loading of the spring, and anti-clockwise to reduce it.

To adjust the action of the hydraulic damper, turn screw "B".

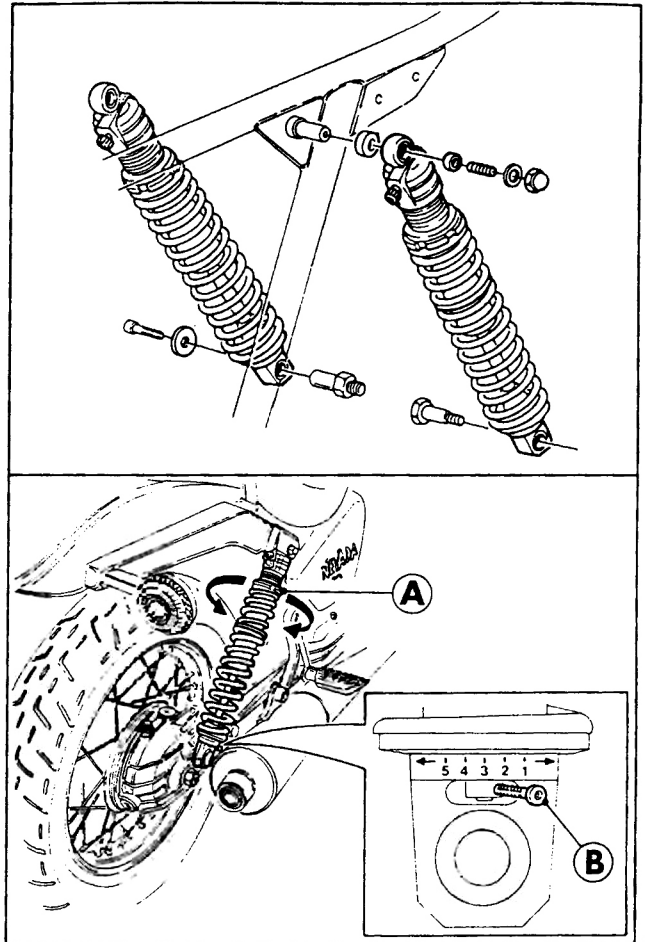
According to needs and the load on the motorcycle, there are several setting positions; from position "1" very soft (minimum damping) to position "5" very hard (maximum damping).

The filling and operating pressure of the rear shock absorbers is 5÷7 BAR (atmospheres), to be checked using the correct gauge; for filling, use nitrogen or dehydrated air.

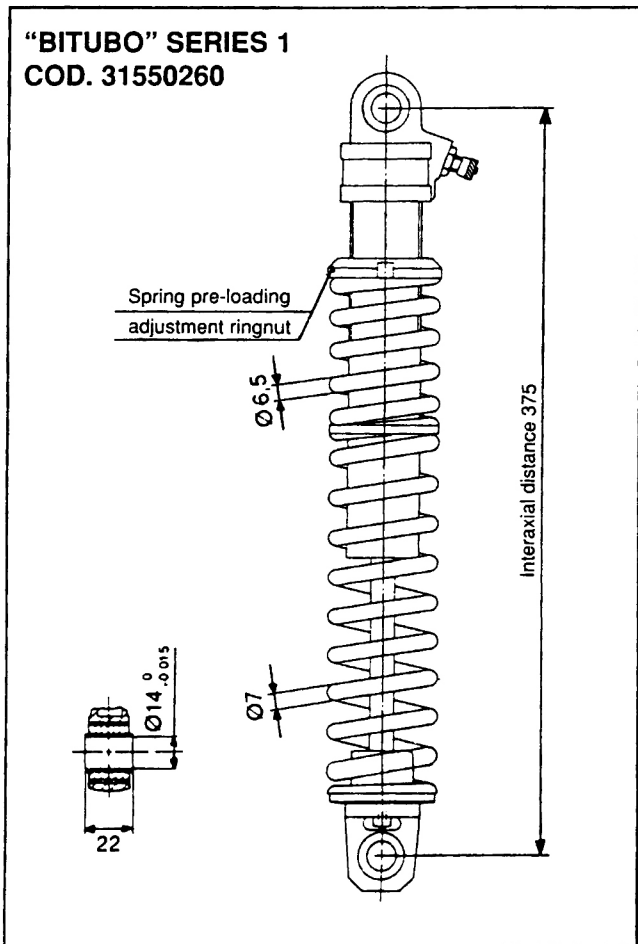
The series 1 shock absorbers (fig. 341) differ from the series 2 ones (fig. 341/A) by the interaxial distances:

Series 1 shock absorbers interaxial distance = 375 mm

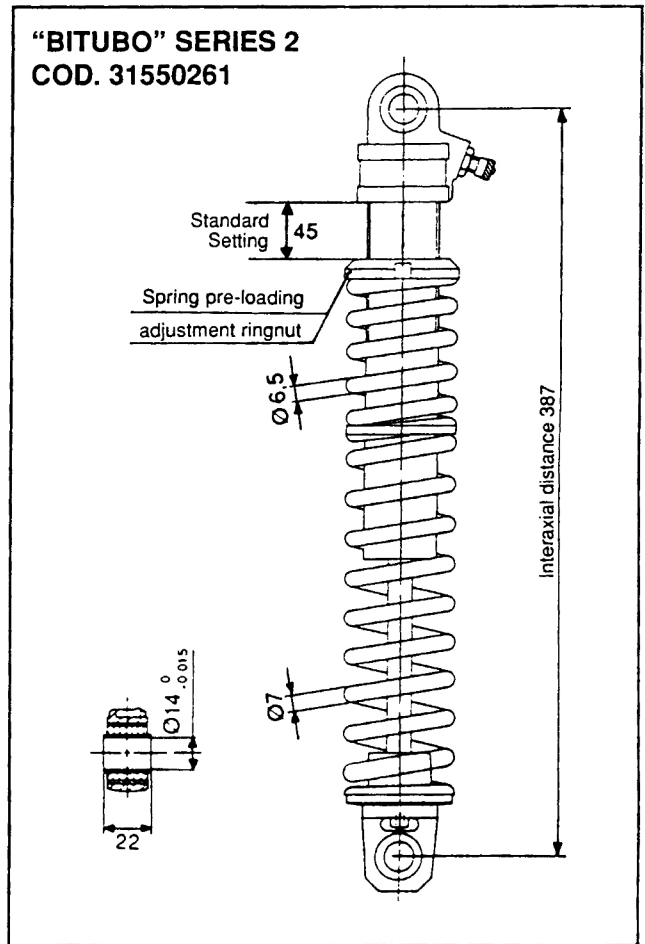
Series 2 shock absorbers interaxial distance = 387 mm



340



341



341/A

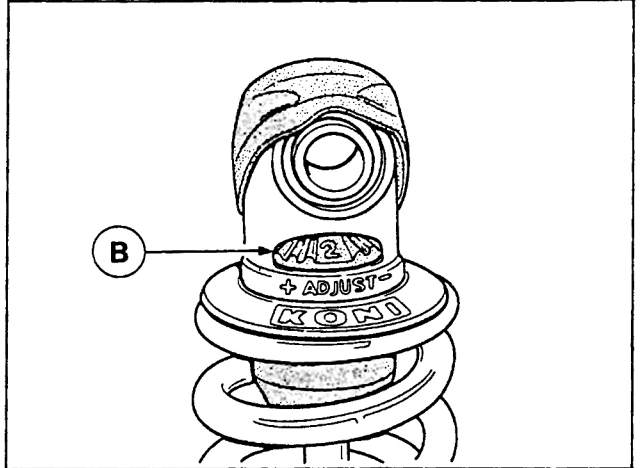
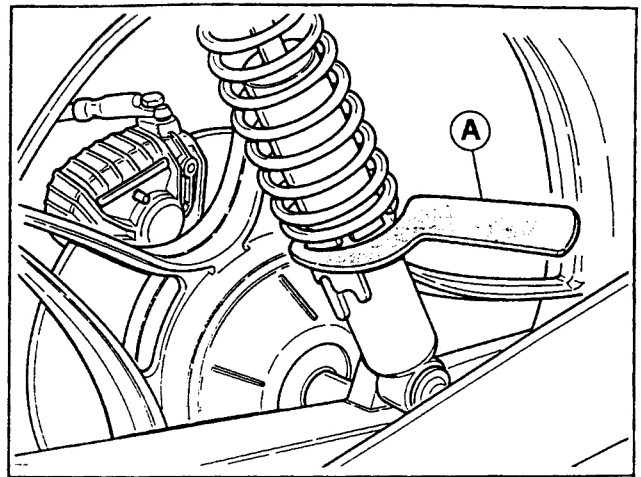
### 13.2 Adjusting rear shock absorbers 750 SP - TARGA 750

The pre-loading on the rear shock absorber springs can be set to three different positions, using the special wrench "A".

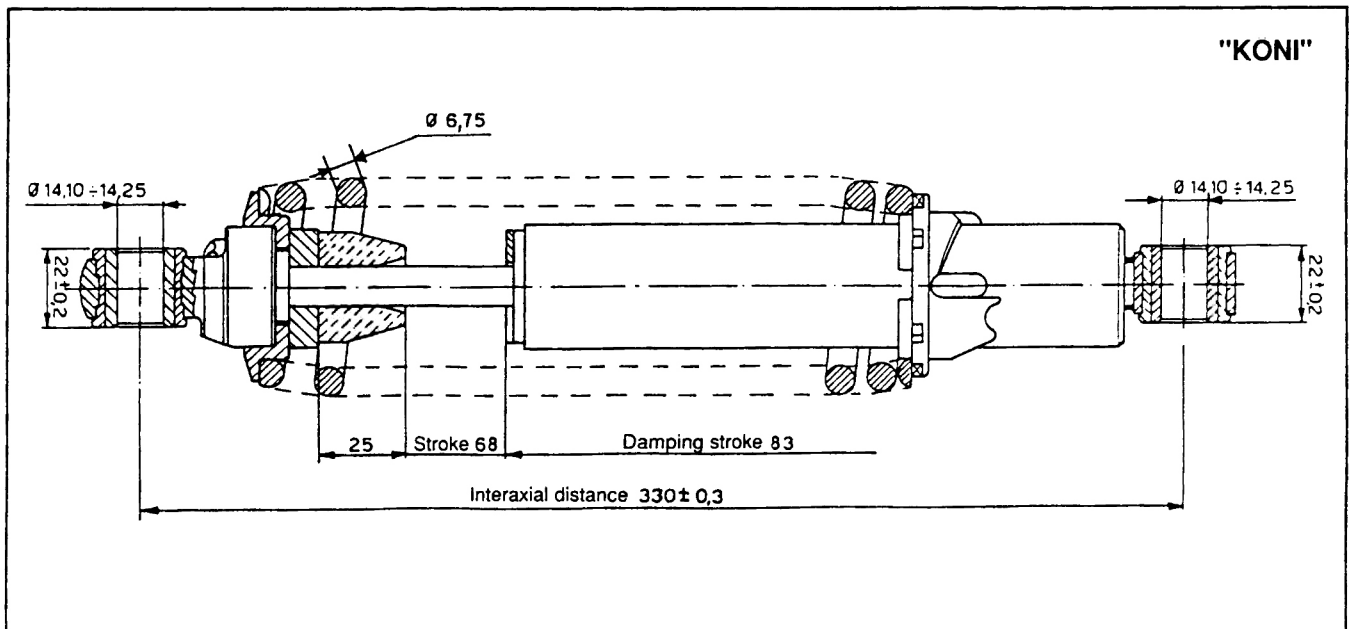
It is also possible to adjust the action of the hydraulic damper, by turning the setting dial "B".

According to needs and the load on the motorcycle, there are 4 setting positions:

- position 1 - very soft, for light loads;
- position 2 - for use on good roads (eg. motorways) with single rider or single rider + passenger;
- position 3 - for racing with single rider or touring for 2 riders with luggage;
- position 4 - very hard, for use with 2 riders in heavy load conditions.



342



343

277

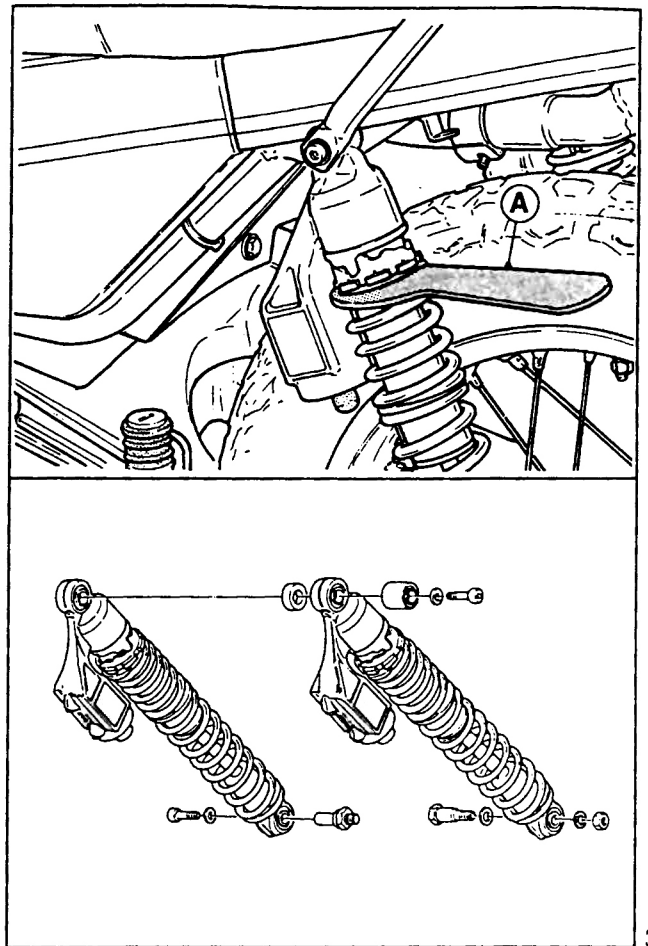


### 13.3 Adjusting rear shock absorbers 750 NTX - 750 X P.A.

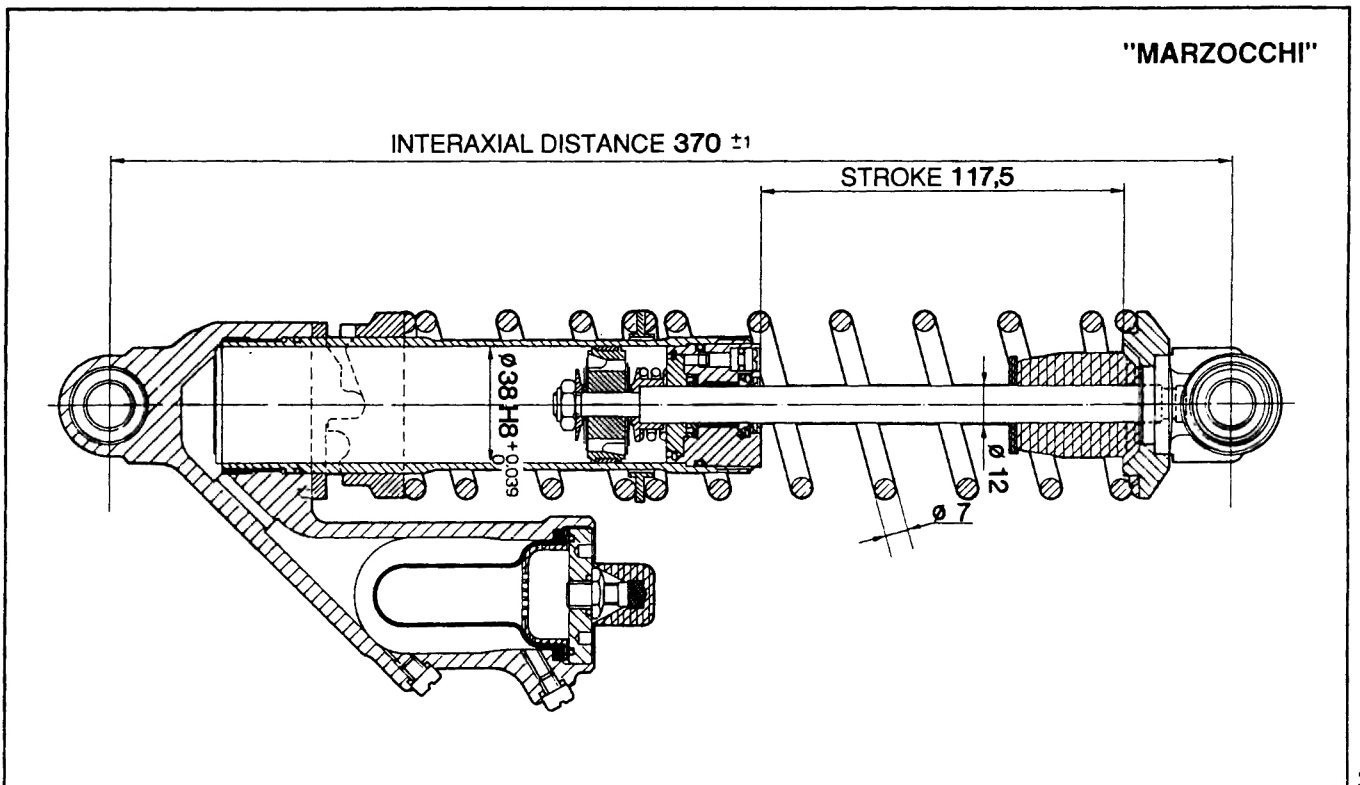
The pre-loading on the shock absorber springs can be set to five different positions, using the special wrench "A".

*Remember that each shock absorber should be set to the same position to ensure maximum stability of the motorcycle.*

The same spring loading and damper setting for the rear shock absorbers is: 8 kg/cm<sup>2</sup>

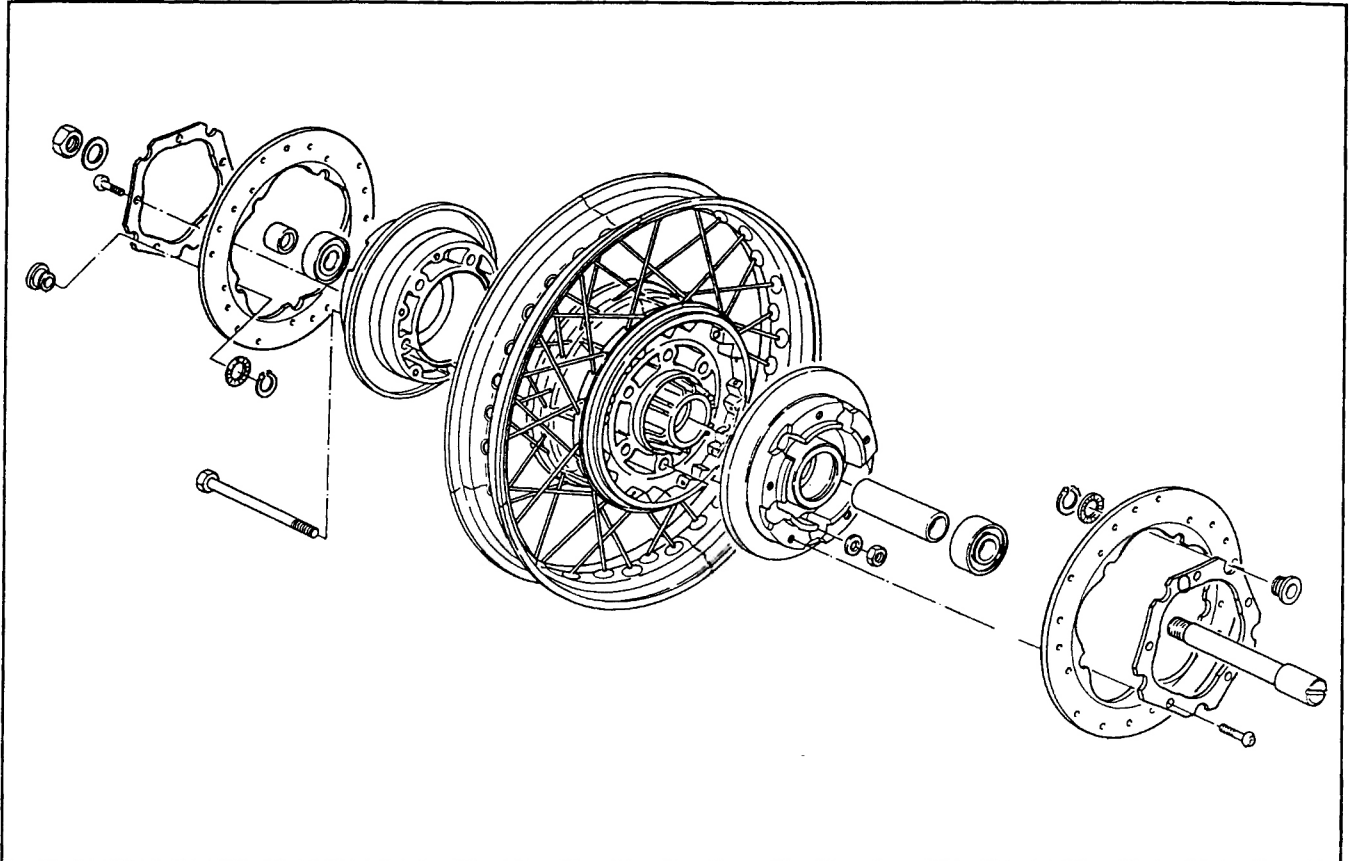


344



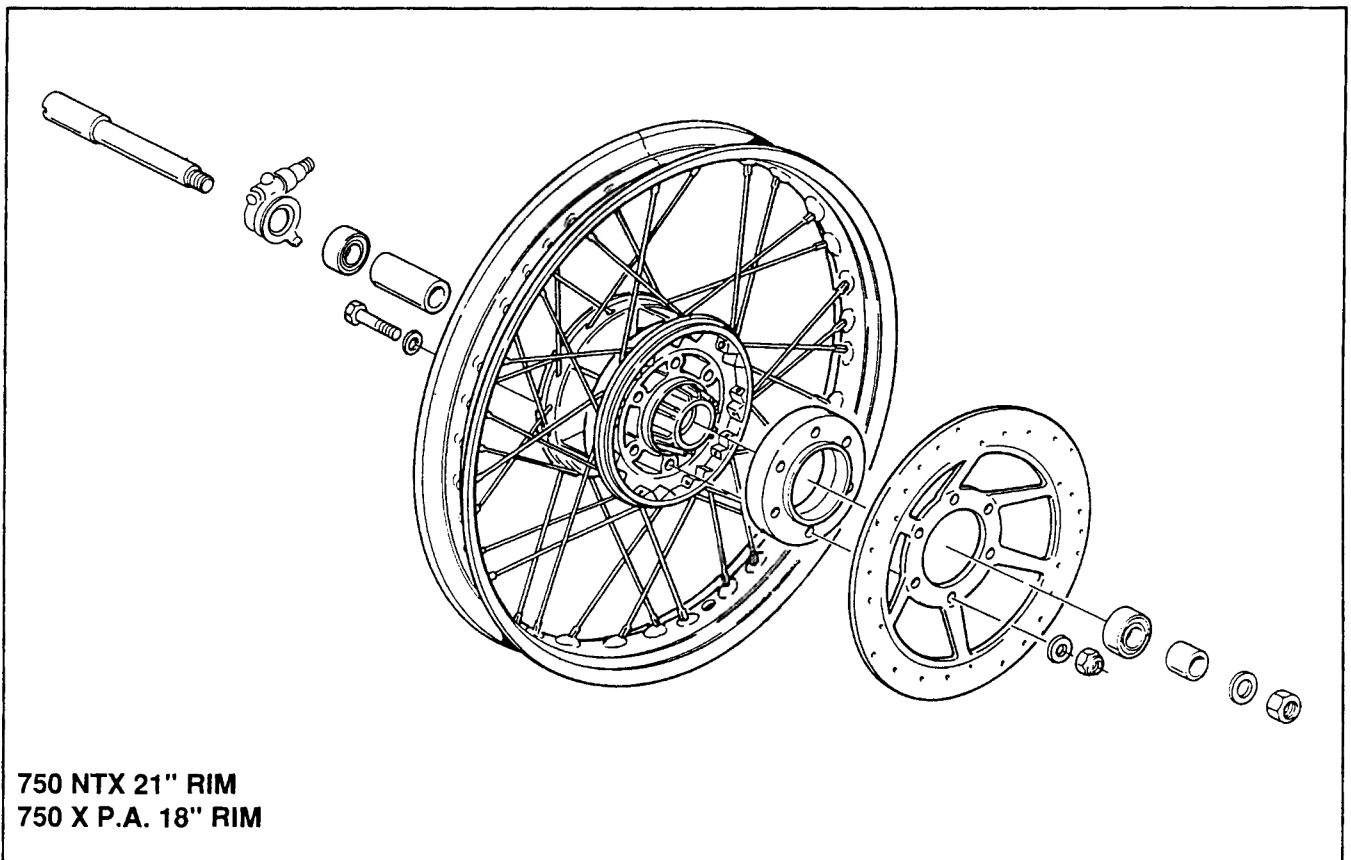
345

**14.1 Front wheel NEVADA 350/750**



346

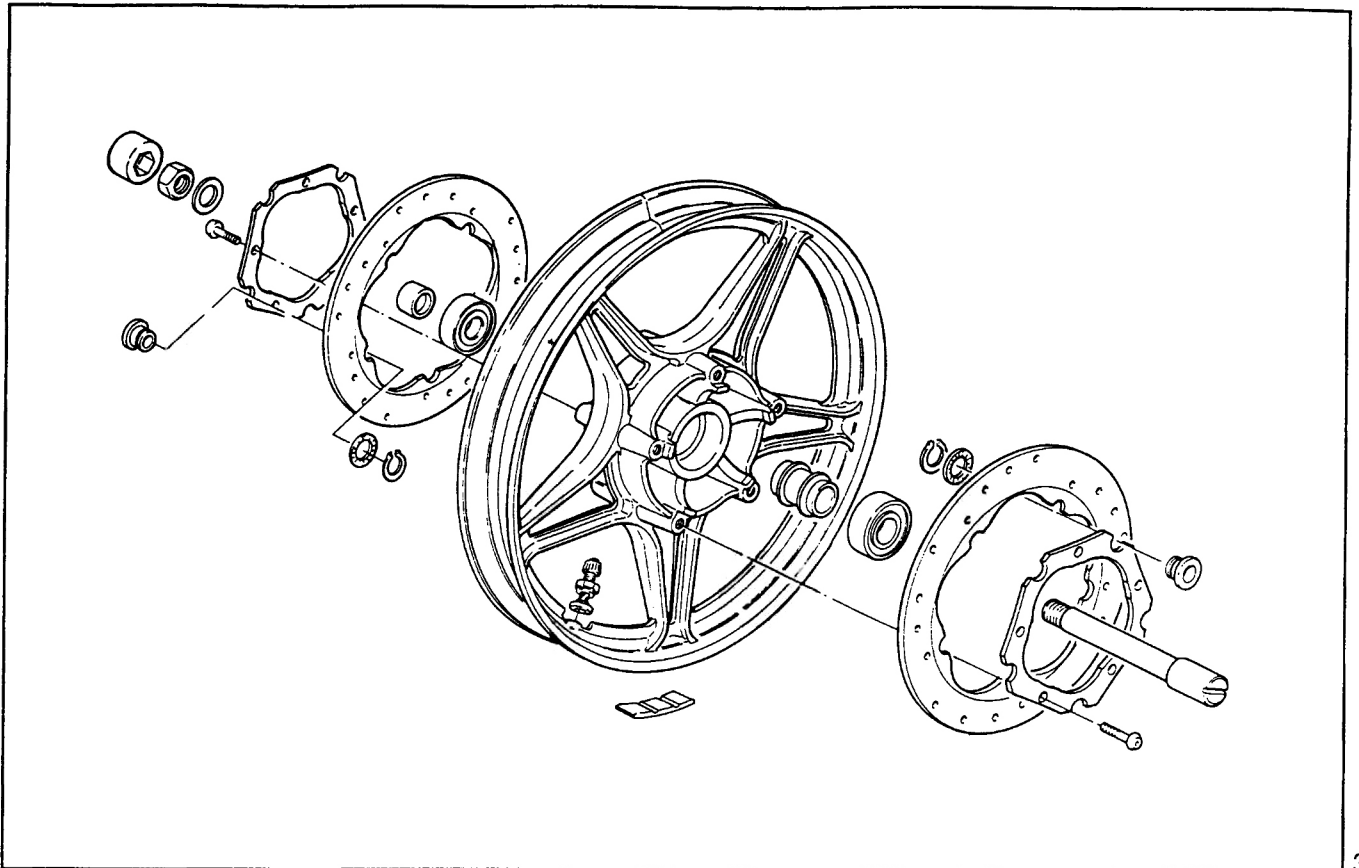
**14.2 Front wheel 750 NTX - 750 X P.A.**



347

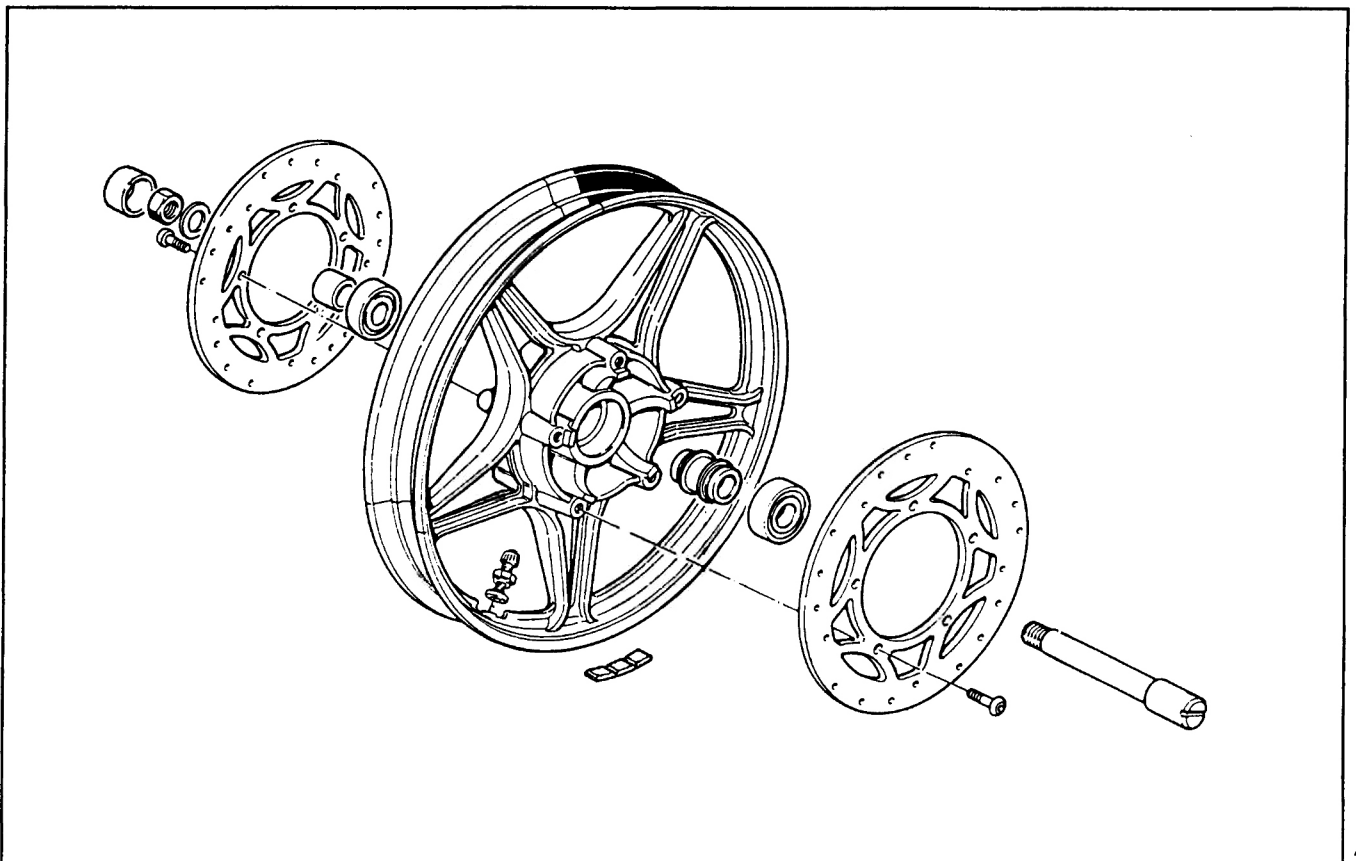
279

### 14.3 Front wheel 750 SP



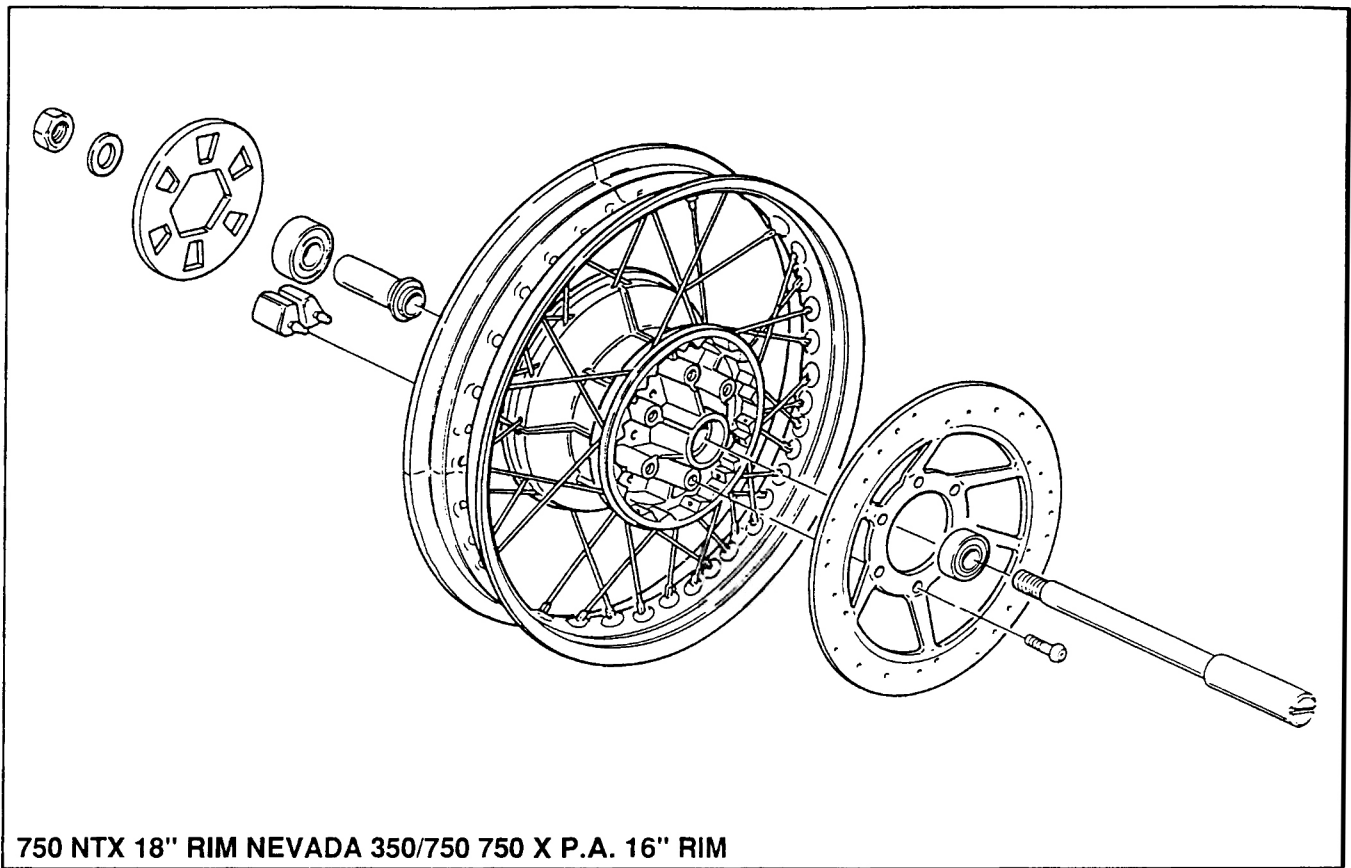
348

### 14.4 Front wheel TARGA 750



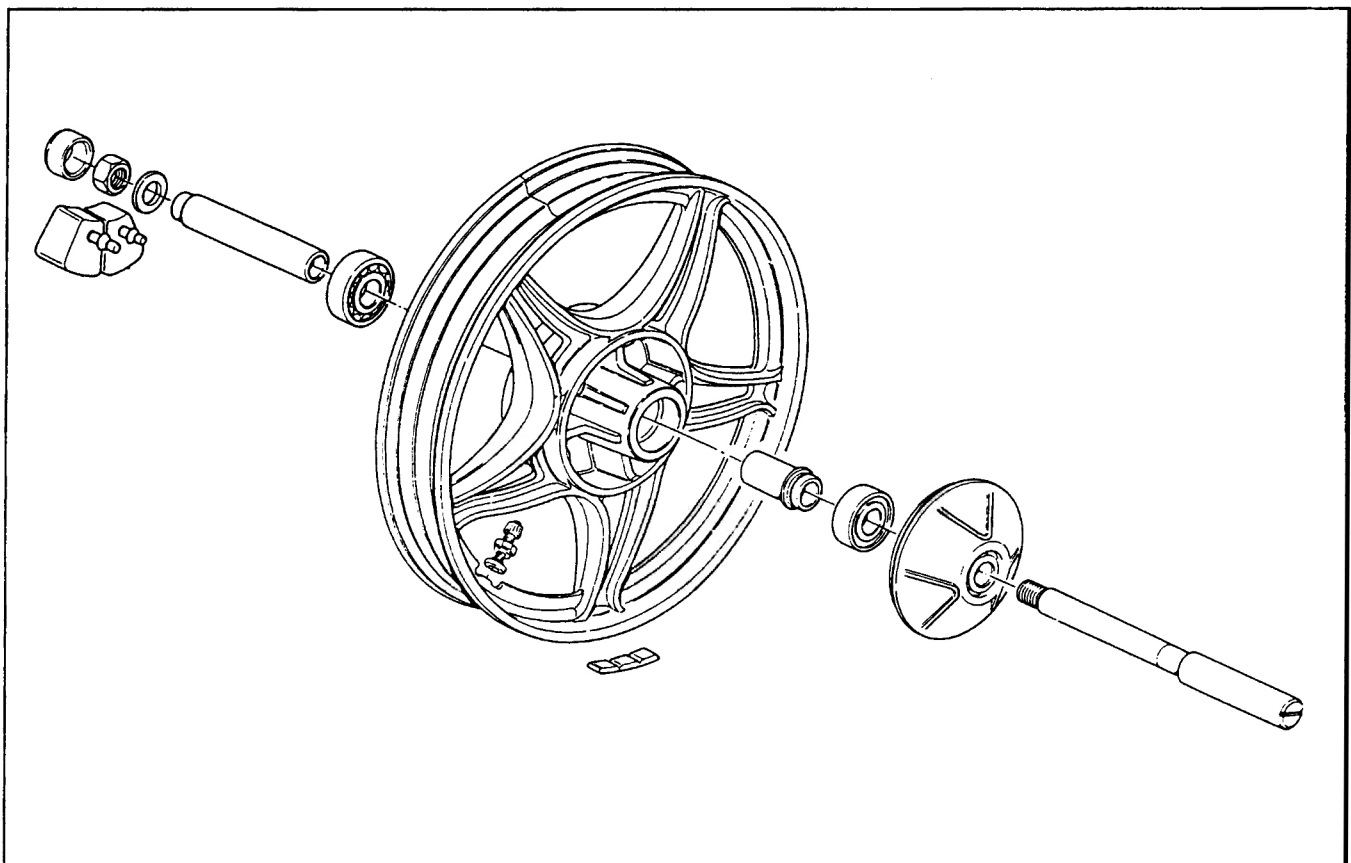
349

14.5 Rear wheel NEVADA 350/750 - 750 NTX - 750 X P.A.



350

14.6 Rear wheel 750 SP - TARGA 750

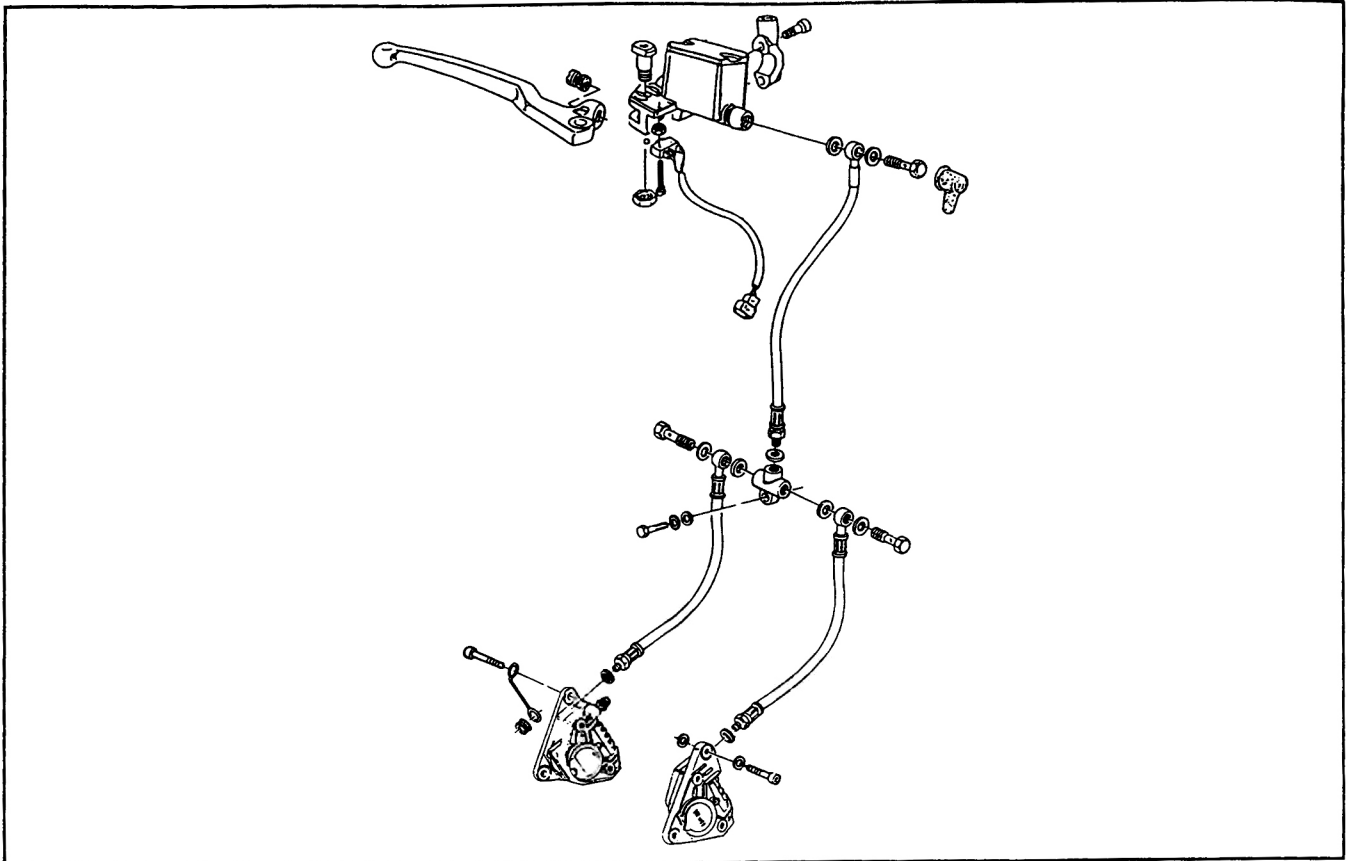


351

281

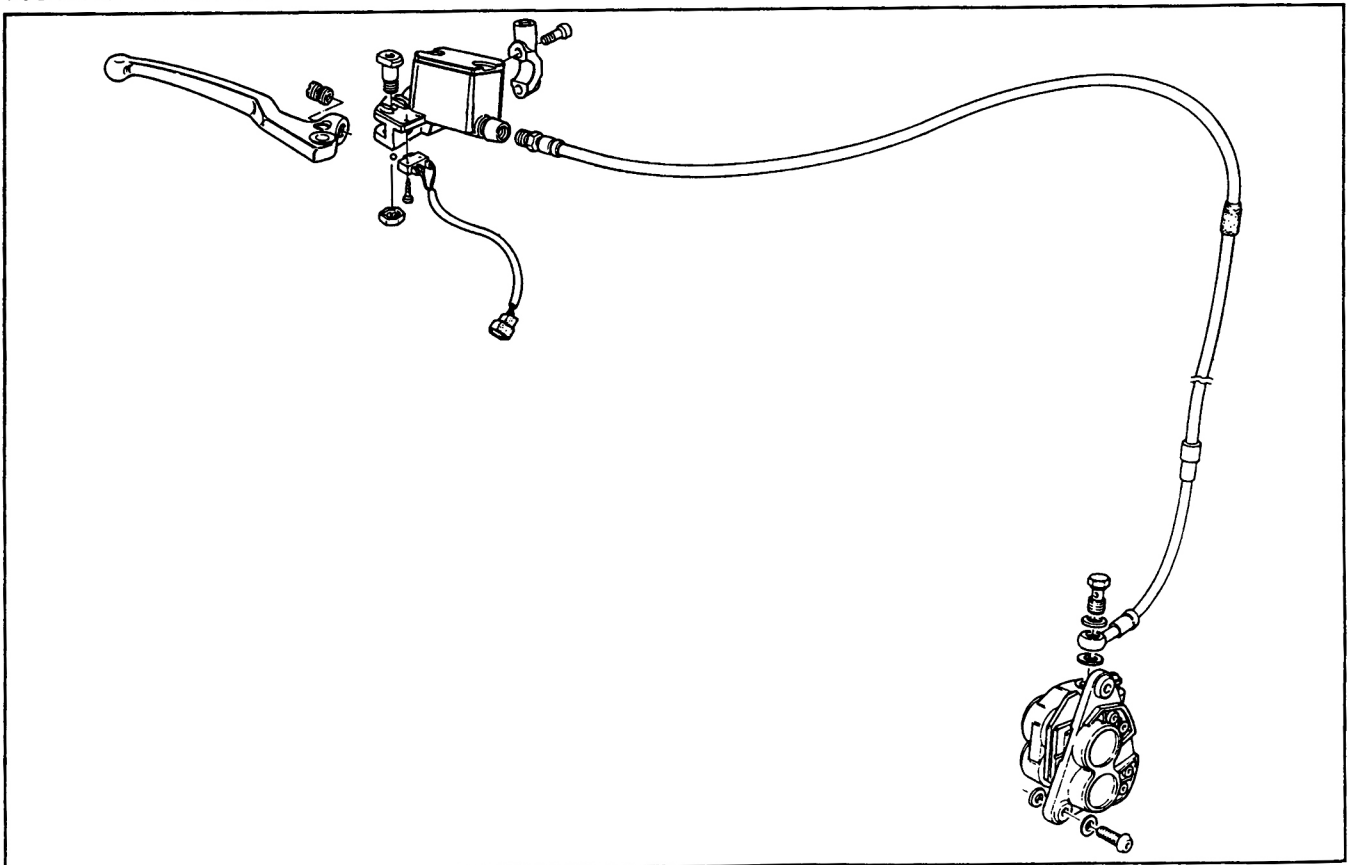
14.7 Brake hydraulic systems

NEVADA 350/750



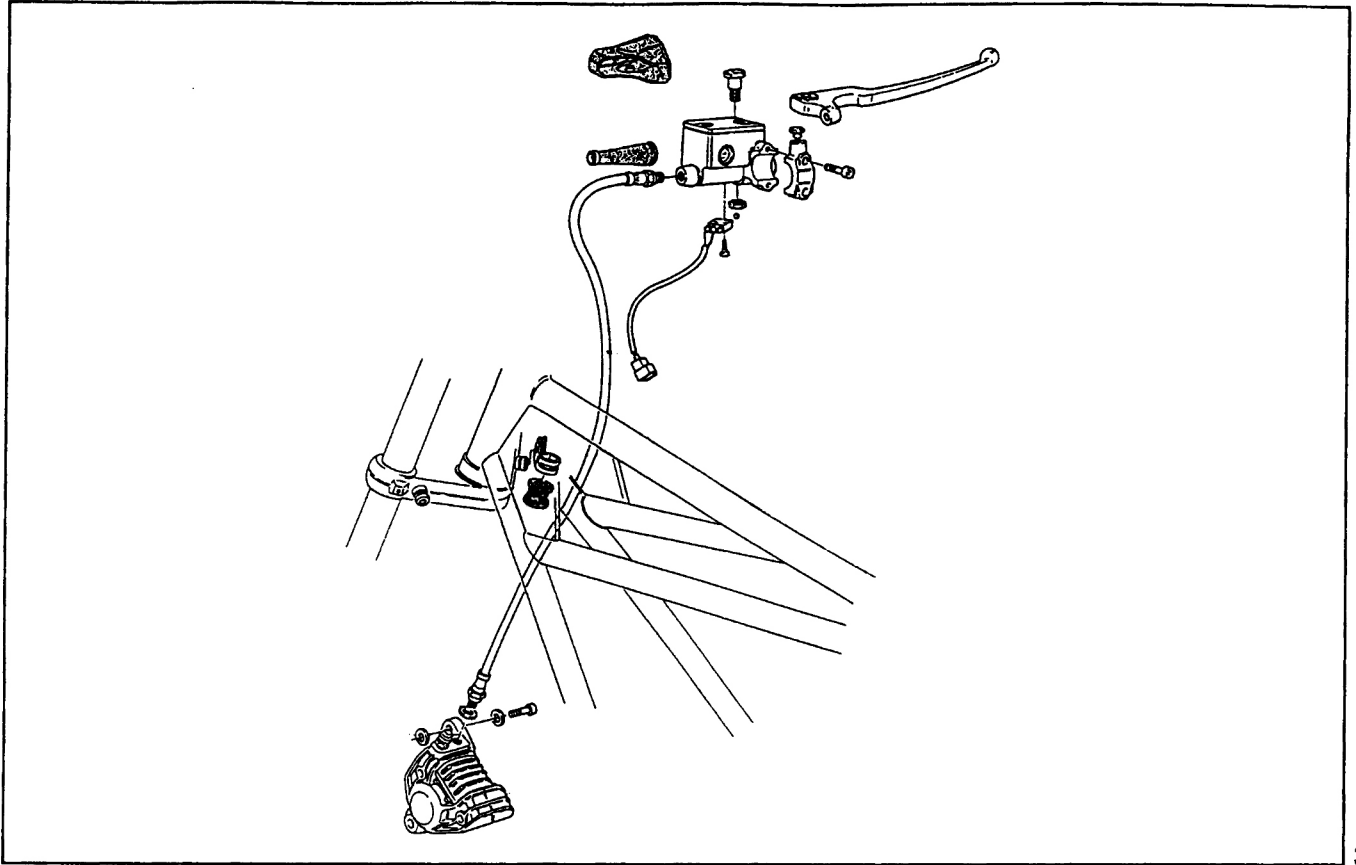
352

750 NTX / 750 X P.A.



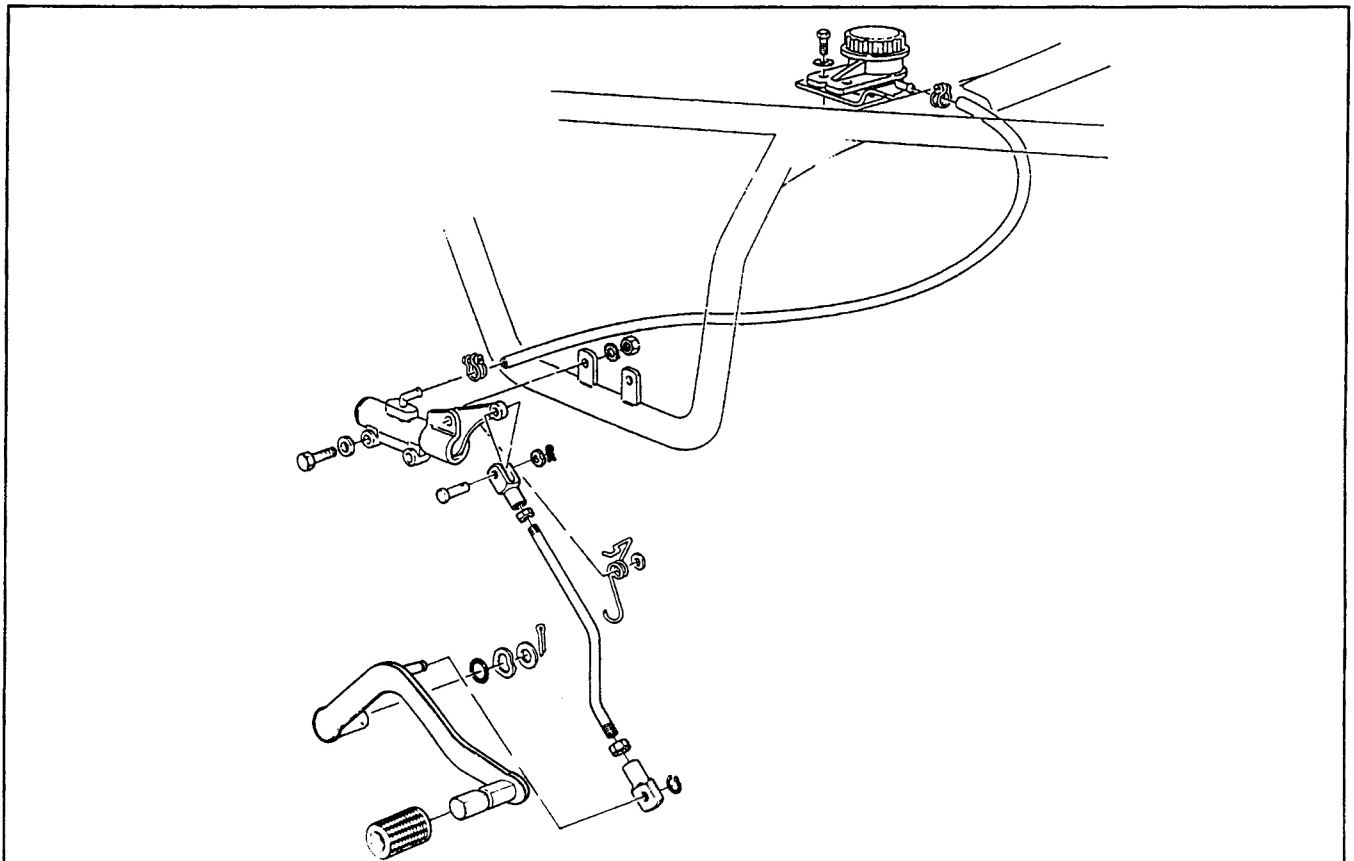
353

TARGA 750/750 SP



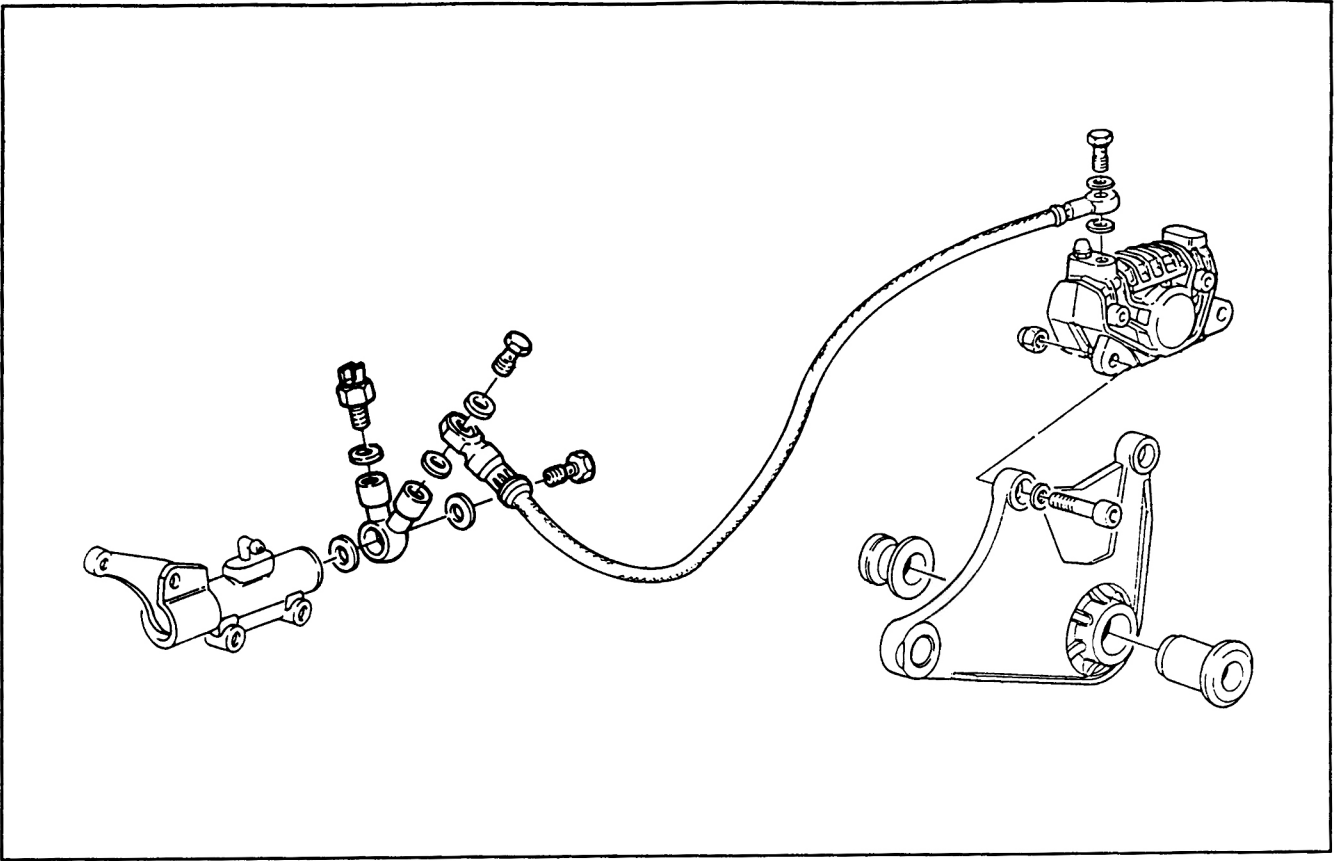
354

NEVADA 350/750

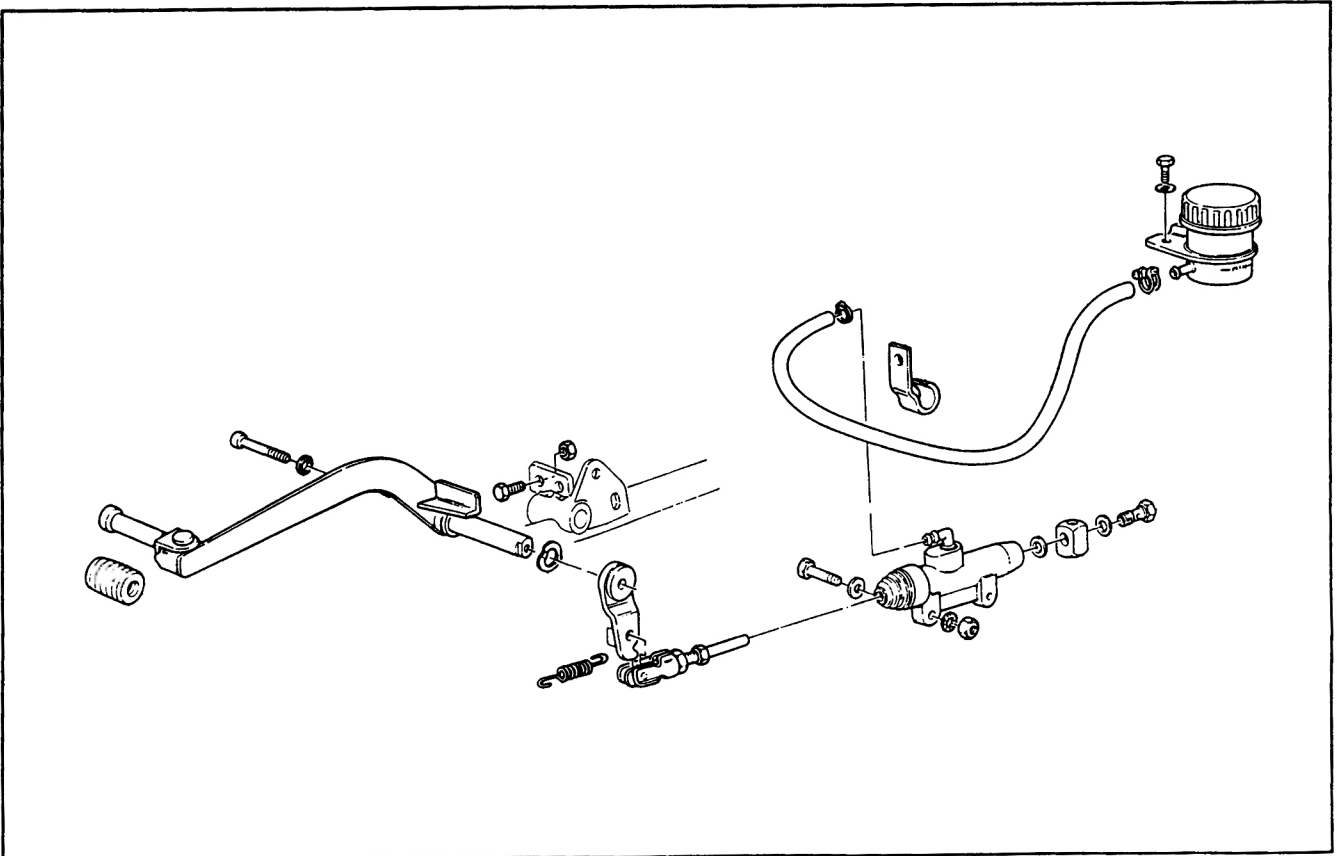


355

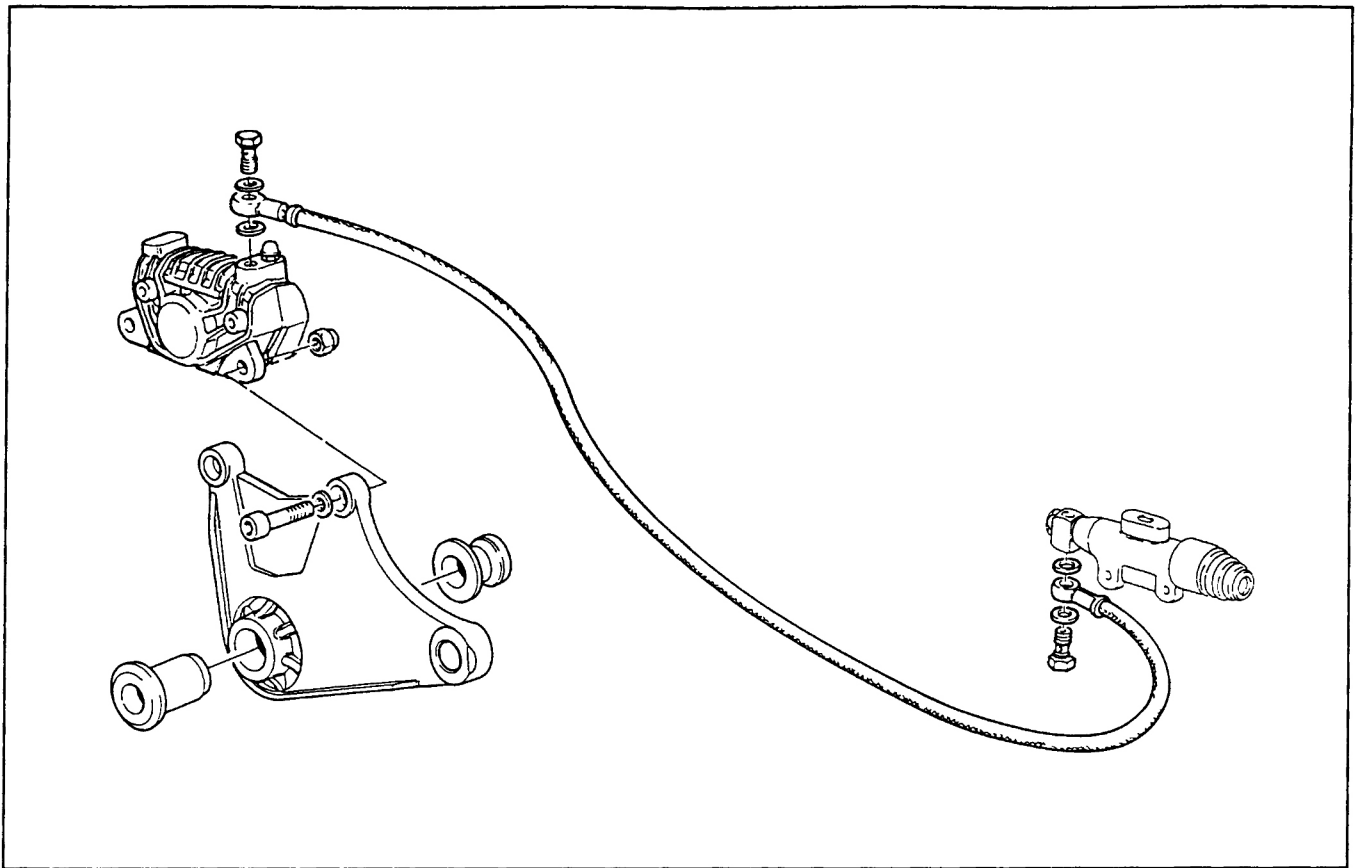
283



356

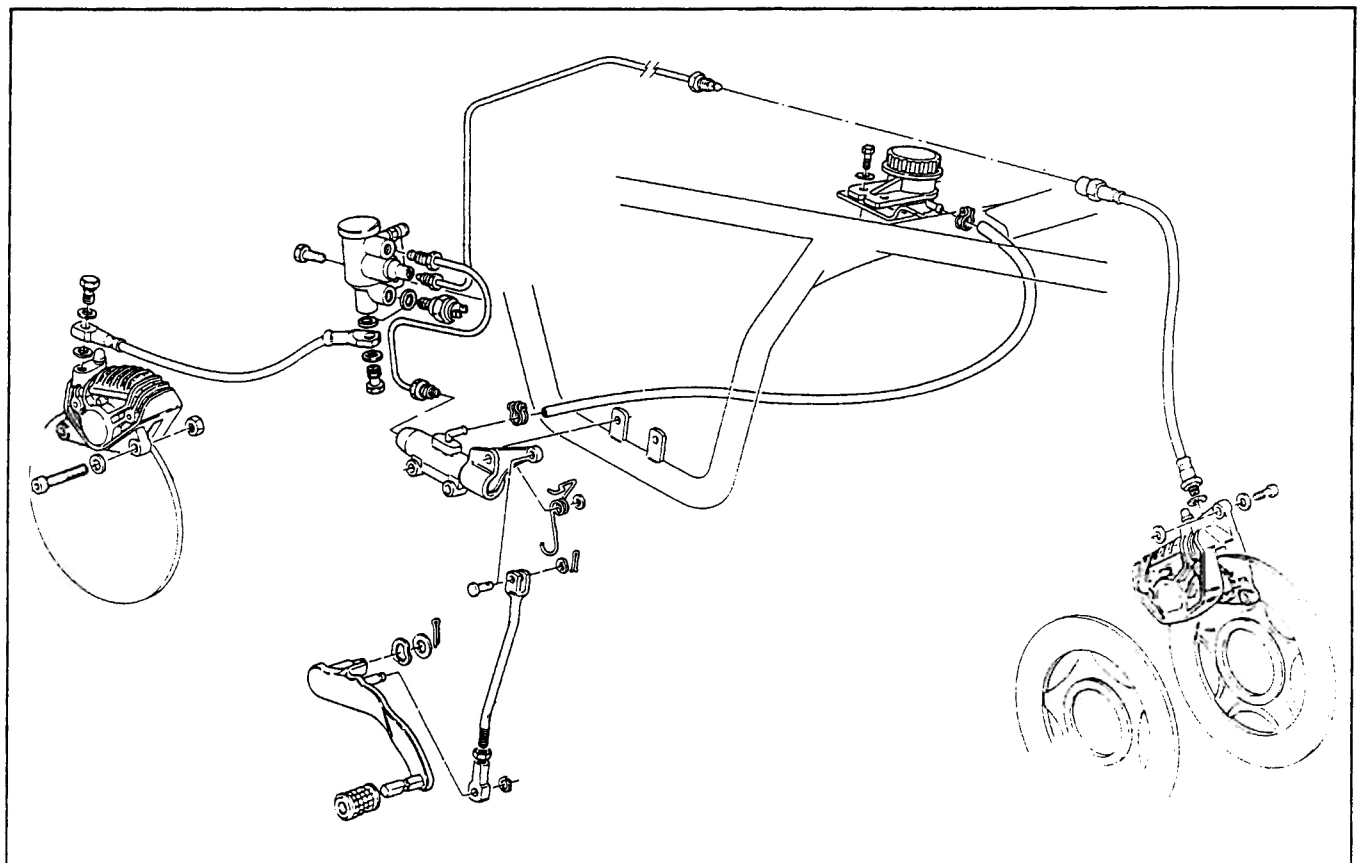


357



358

TARGA 750/750 SP

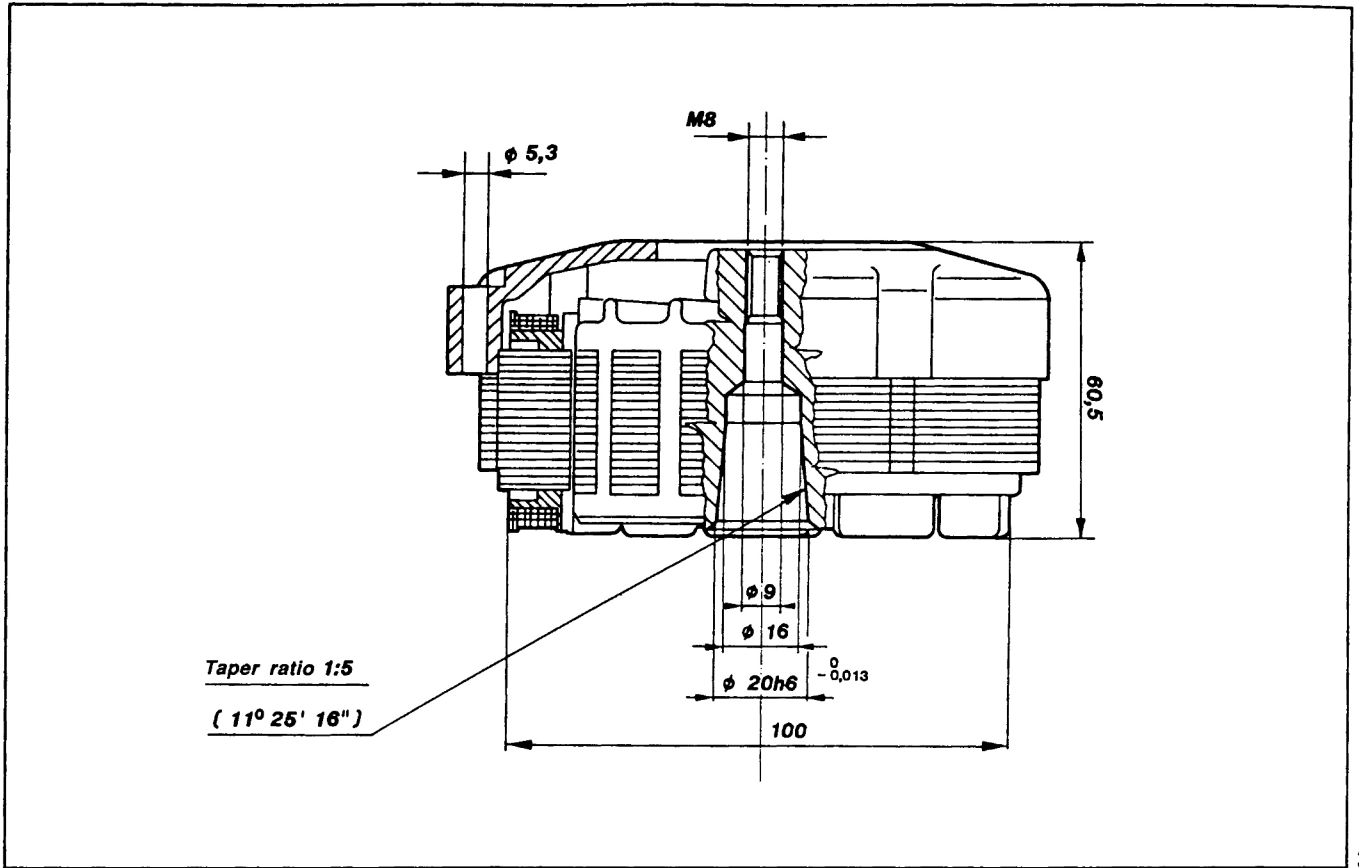


359

285

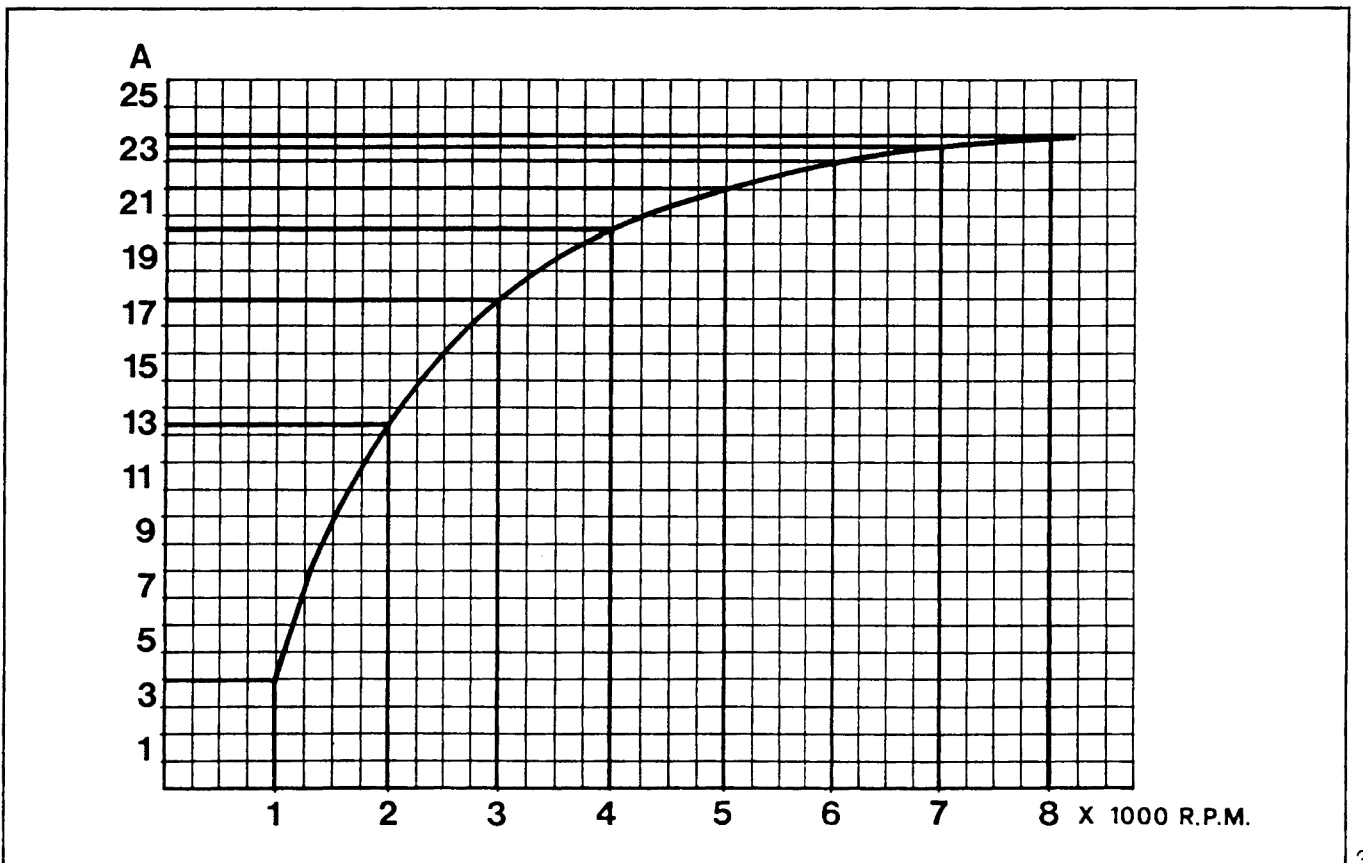


15.1 Alternator generator (SAPRISA)



360

Charging current intensity graph



361

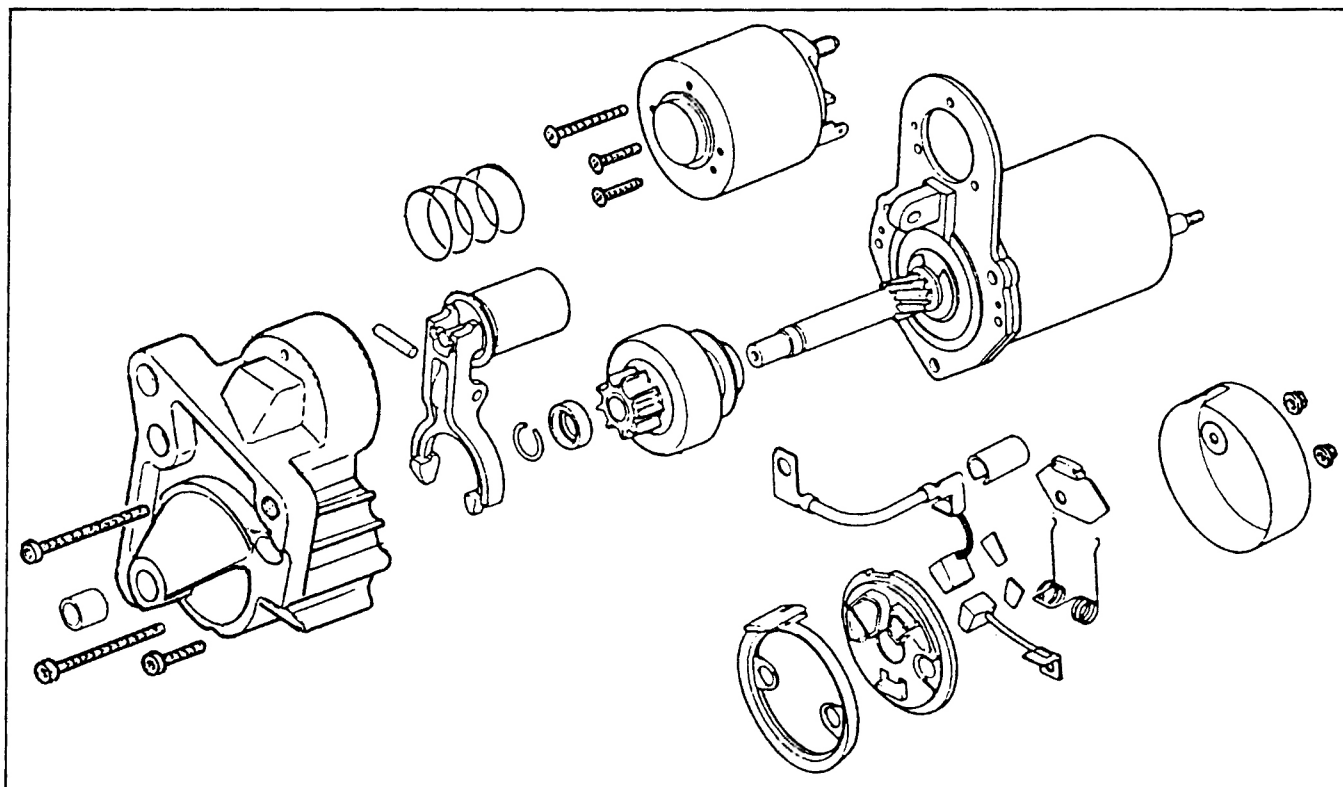
## 15.2 Starter motor (VALEO)

GENERAL CHARACTERISTICS	
Voltage	12 V
Power	1.2 Kw
No-load Torque	11 Nm
Torque under load	4.5 Nm
Pinion	tooth ratio = 9 mod. 2.5
Rotation, pinion side	Anti-clockwise
Speed	1750 r.p.m.
No-load current	600 A
Current under load	230 A
Weight	2.8 Kg

### CAUTION!

The starter motor should not be operated for more than 5 seconds; if the engine does not start, wait 10 seconds before trying again.

Only press the START button when the engine is completely stopped.



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## 16 IGNITION

### 16.1 Ignition characteristics (Figures in brackets refer to the NEVADA 350)

Electronic ignition: advance variations are electronically controlled.

- Initial (static) advance (1°) 7°
  - Automatic advance (electronic) 30° approx.
  - Full advance (static+automatic) (32°±2°) 38°±2°
- Rotor-pick-up gap 0.2+0.3 mm

Electronic-type ignition practically requires no maintenance.

The engine has been timed when the stamped-on mark indicated by the white arrow in the drawing (fig. 364) is in line with the reference mark on the engine block (black arrow).

To rotate the "PICK-UP" plate, loosen screws "A" and "B" and turn by inserting a screwdriver into groove "C".

Recently produced "PICK-UP" plates no longer have the static advance reference marks (fig. 365).

To check the static advance accurately, a strobe gun should be used.

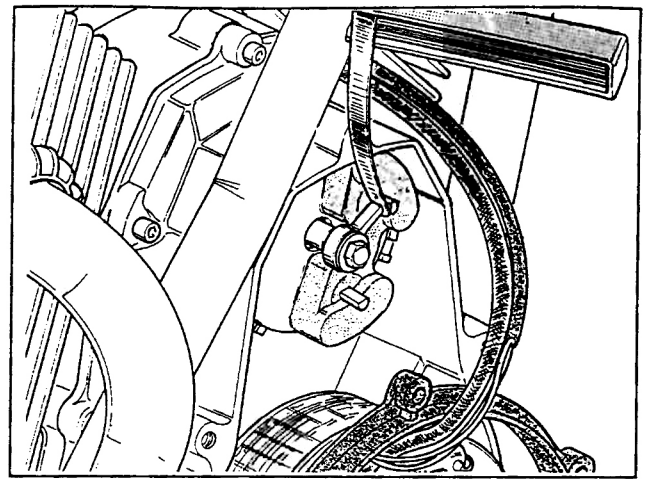
With the engine running at less than 1000 rpm, notch "1", stamped on the flywheel (see figs. 366 and 367) must be lined up with the reference mark on the rim of the inspection hole "2" (fig. 366). The T.D.C. is marked by reference mark "0" on the flywheel (fig. 367).

To check the full advance, use a strobe gun with a degree scale, keeping the engine running at 4500 rpm.

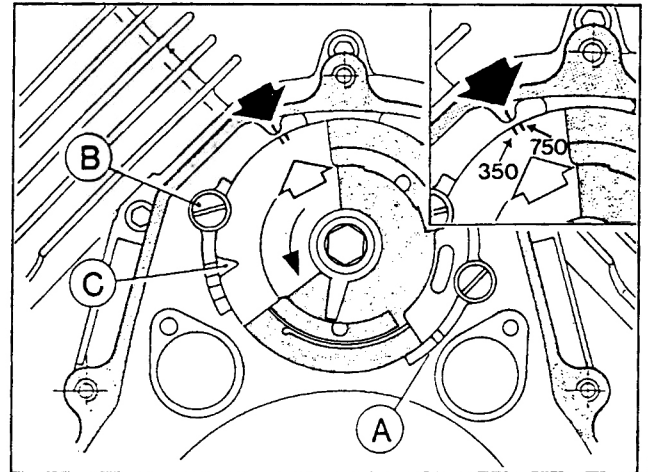
#### CAUTION!

In order to avoid damaging the electronic ignition unit, observe the following precautions:

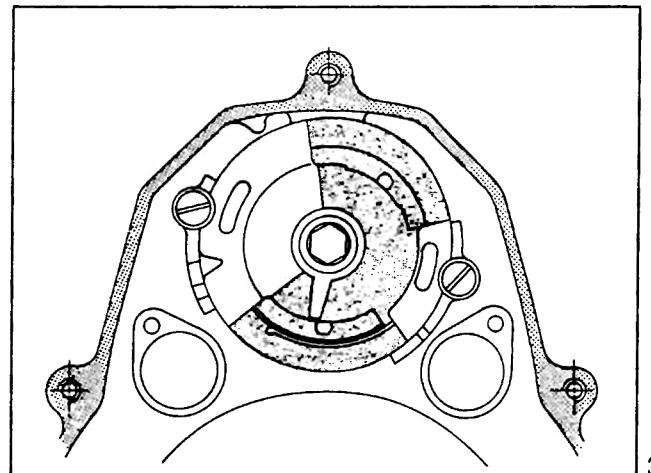
- when removing or replacing the battery, ensure that the ignition switch is in the "0" position;
- do not disconnect the battery when the engine is running;
- ensure that the control unit ground leads are in perfect working order.



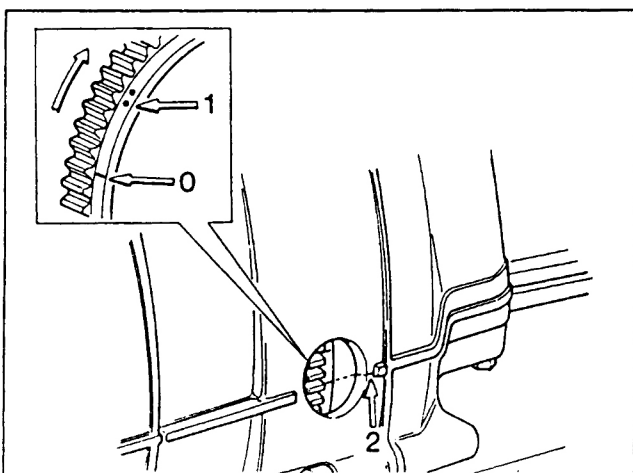
363



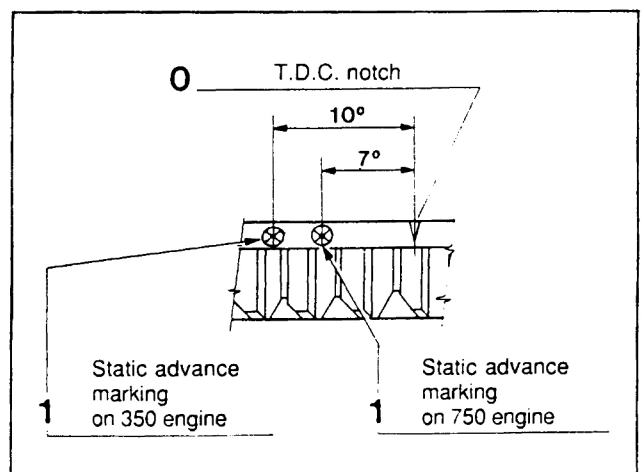
364



365

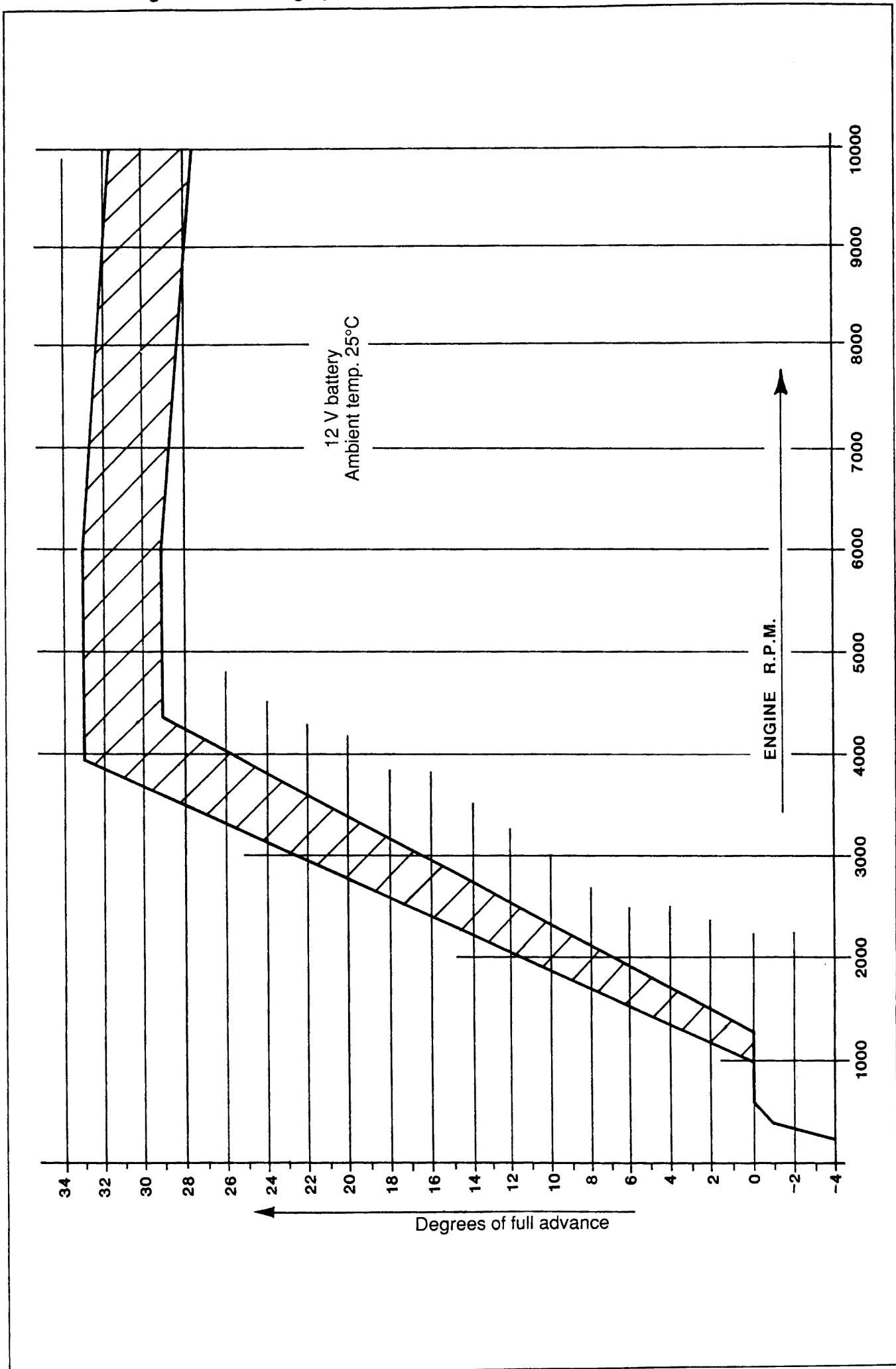


366



367

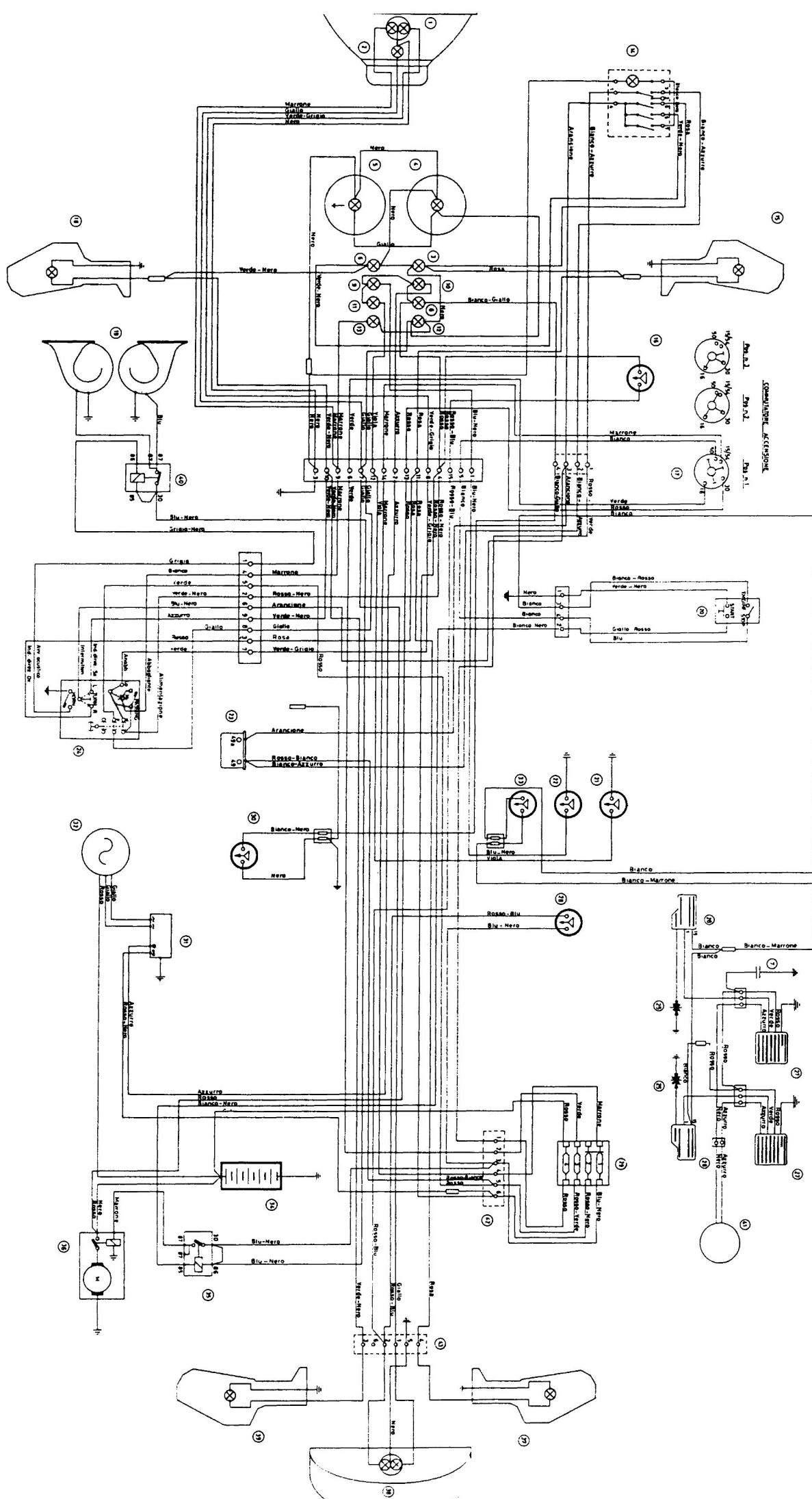
# 16.2 Electronic ignition advance graph curve



**17.1 Wiring diagram key NEVADA 350/750**

- 1 Bulb, main/dipped beam 60/55W
- 2 Bulb, front sidelights 4W
- 3 Bulb, r/h direction indicator warning light
- 4 Bulb, speedometer light
- 5 Bulb, rev counter light
- 6 Bulb, l/h direction indicator warning light
- 7 Condenser
- 8 Bulb, fuel level warning light
- 9 Bulb, oil pressure warning light
- 10 Bulb, generator warning light
- 11 Bulb, neutral warning light
- 12 Bulb, sidelight warning light
- 13 Bulb, main beam warning light
- 14 Emergency flasher switch
- 15 R/h front direction indicator
- 16 Front brake light switch
- 17 Ignition switch
- 18 L/h front direction indicator
- 19 Two-tone horn
- 20 Control switch: start/stop engine
- 21 Neutral position switch
- 22 Oil pressure switch
- 23 Blinker unit (12V 46W)
- 24 Control switch: lights-horn-direction indicators
- 25 Spark plugs
- 26 H.T. coil
- 27 Electronic ignition control unit
- 28 Rear brake light switch
- 29 Fuse terminal board
- 30 Fuel level transmitter warning light
- 31 Voltage regulator
- 32 Alternator 14V-20A
- 33 Side stand switch
- 34 Battery 12V-20Ah
- 35 Starter solenoid
- 36 Starter motor
- 37 R/h rear direction indicator
- 38 Bulb, number plate and brake light
- 39 L/h rear direction indicator
- 40 Two-tone horn switch
- 41 Pick-up
- 42 Connector 6-way AMP

- Arancio = Orange
- Azzurro = Light blue
- Bianco = White
- Giallo = Yellow
- Grigio = Grey
- Marrone = Brown
- Nero = Black
- Rosa = Pink
- Rosso = Red
- Verde = Green
- Viola = Violet
- Azzurro-Rosso = Light blue-Red
- Bianco-Azzurro = White-Light blue
- Bianco-Bleu = White-Blue
- Bianco-Giallo = White-Yellow
- Bianco-Nero = White-Black
- Bianco-Rosso = White-Red
- Bleu-Nero = Blue-Black
- Giallo-Nero = Yellow-Black
- Giallo-Rosso = Yellow-Red
- Grigio-Nero = Grey-Black
- Nero-Bleu = Black-Blue
- Rosso-Bianco = Red-White
- Rosso-Bleu = Red-Blue
- Rosso-Nero = Red-Black
- Rosso-Verde = Red-Green
- Verde-Grigio = Green-Grey
- Verde-Nero = Green-Black
- Verde-Rosso = Green-Red



SCHEMATA ACCENSIONE  
Fig. n.1  
Fig. n.2  
Fig. n.3

## 17.2 Wiring diagram key 750 SP

- 1 Bulb, main/dipped beam 60/55W
- 2 Bulb, front sidelights 4W
- 3 Bulb, r/h direction indicator warning light
- 4 Bulb, speedometer light
- 5 Bulb, rev counter light
- 6 Bulb, l/h direction indicator warning light
- 8 Bulb, fuel level warning light
- 9 Bulb, oil pressure warning light
- 10 Bulb, generator warning light
- 11 Bulb, neutral warning light
- 12 Bulb, sidelight warning light
- 13 Bulb, main beam warning light
- 14 Emergency flasher switch
- 15 R/h front direction indicator
- 16 Front brake light switch
- 17 Ignition switch
- 18 L/h front direction indicator
- 19 Two-tone horn
- 20 Control switch: start/stop engine
- 21 Neutral position switch
- 22 Oil pressure switch
- 23 Blinker unit (12V 46W)
- 24 Control switch: lights-horn-direction indicators
- 25 Spark plugs
- 26 H.T. coil
- 27 Electronic ignition control unit
- 28 Rear brake light switch
- 29 Fuse terminal board
- 30 Fuel level transmitter warning light
- 31 Voltage regulator
- 32 Alternator 14V-20A
- 33 Condenser
- 34 Battery 12V-24Ah
- 35 Starter solenoid
- 36 Starter motor
- 37 R/h rear direction indicator
- 38 Bulb, number plate and brake light
- 39 L/h rear direction indicator
- 40 Two-tone horn switch
- 41 Pick-up
- 42 Connector 6-way AMP
- 43 Molex 6-way connector
- 44 Voltmeter
- 45 Clock
- 46 Connector 4-way AMP
- 47 Direction indicator audible beep

- Arancio = Orange
- Azzurro = Light blue
- Bianco = White
- Giallo = Yellow
- Grigio = Grey
- Marrone = Brown
- Nero = Black
- Rosa = Pink
- Rosso = Red
- Verde = Green
- Viola = Violet
- Azzurro-Rosso = Light blue-Red
- Bianco-Azzurro = White-Light blue
- Bianco-Bleu = White-Blue
- Bianco-Giallo = White-Yellow
- Bianco-Nero = White-Black
- Bianco-Rosso = White-Red
- Bleu-Nero = Blue-Black
- Giallo-Nero = Yellow-Black
- Giallo-Rosso = Yellow-Red
- Grigio-Nero = Grey-Black
- Nero-Bleu = Black-Blue
- Rosso-Bianco = Red-White
- Rosso-Bleu = Red-Blue
- Rosso-Nero = Red-Black
- Rosso-Verde = Red-Green
- Verde-Grigio = Green-Grey
- Verde-Nero = Green-Black
- Verde-Rosso = Green-Red



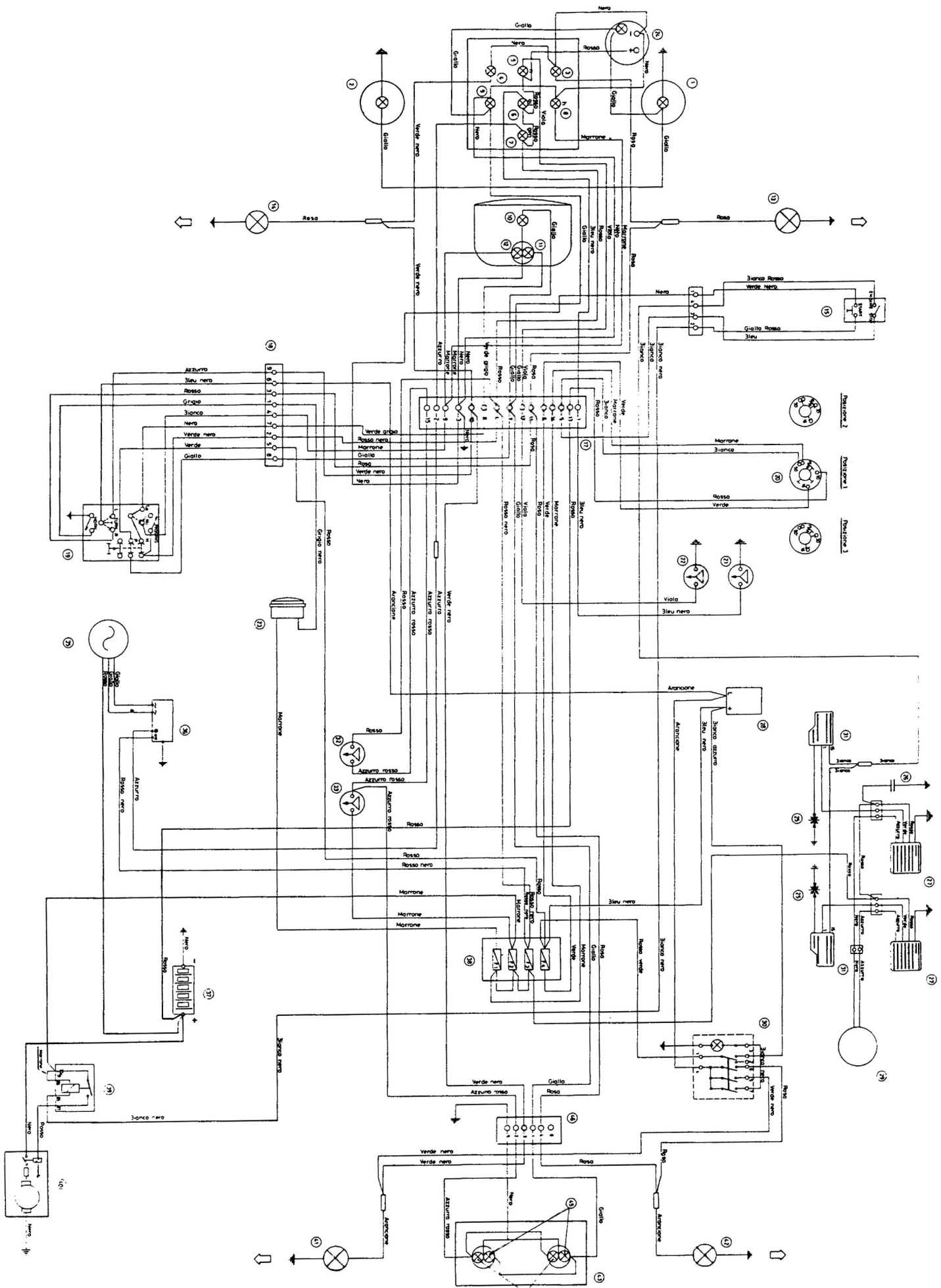


### 17.3 Wiring diagram key TARGA 750

- 1 Odometer
- 2 Rev counter
- 3 Bulb, r/h front and rear direction indicator warning light
- 4 Bulb, l/h front and rear direction indicator warning light
- 5 Bulb, neutral warning light
- 6 Bulb, oil pressure warning light
- 7 Bulb, generator warning light
- 8 Bulb, main beam warning light
- 9 Bulb, sidelights warning light
- 10 Bulb, front sidelight
- 11 Bulb, dipped beam
- 12 Bulb, main beam
- 13 R/h front direction indicator
- 14 L/h front direction indicator
- 15 Control switch: start/stop engine
- 16 9-way connector
- 17 15-way connector
- 18 9-way connector
- 19 Control switch: lights-horn-direction indicators
- 20 Ignition switch
- 21 Oil pressure switch
- 22 Neutral position switch
- 23 Audible warning
- 24 Voltmeter
- 25 Spark plugs
- 26 Condenser
- 27 Electronic ignition control unit
- 28 Blinker unit
- 29 Pick-up
- 30 Emergency flasher switch
- 31 H.T. coil
- 32 Front brake light switch
- 33 Rear brake light switch
- 35 Alternator
- 36 Voltage regulator
- 37 Battery 12V - 24Ah
- 38 Fuse terminal board
- 39 Starter solenoid
- 40 Starter motor
- 41 L/h rear direction indicator
- 42 R/h rear direction indicator
- 43 Rear light assembly
- 44 Rear brake light
- 45 Rear number plate light and sidelight
- 46 Molex 6-way connector

- Fuse n° 1** Flashers - Audible warning.  
**Fuse n° 2** Light flasher switch - Starter solenoid - Rear brake light switch  
**Fuse n° 3** Warning lights (gen.- oil - main beam) - main and dipped beam.  
**Fuse n° 4** Sidelight - Dashboard light - Lights warning light.

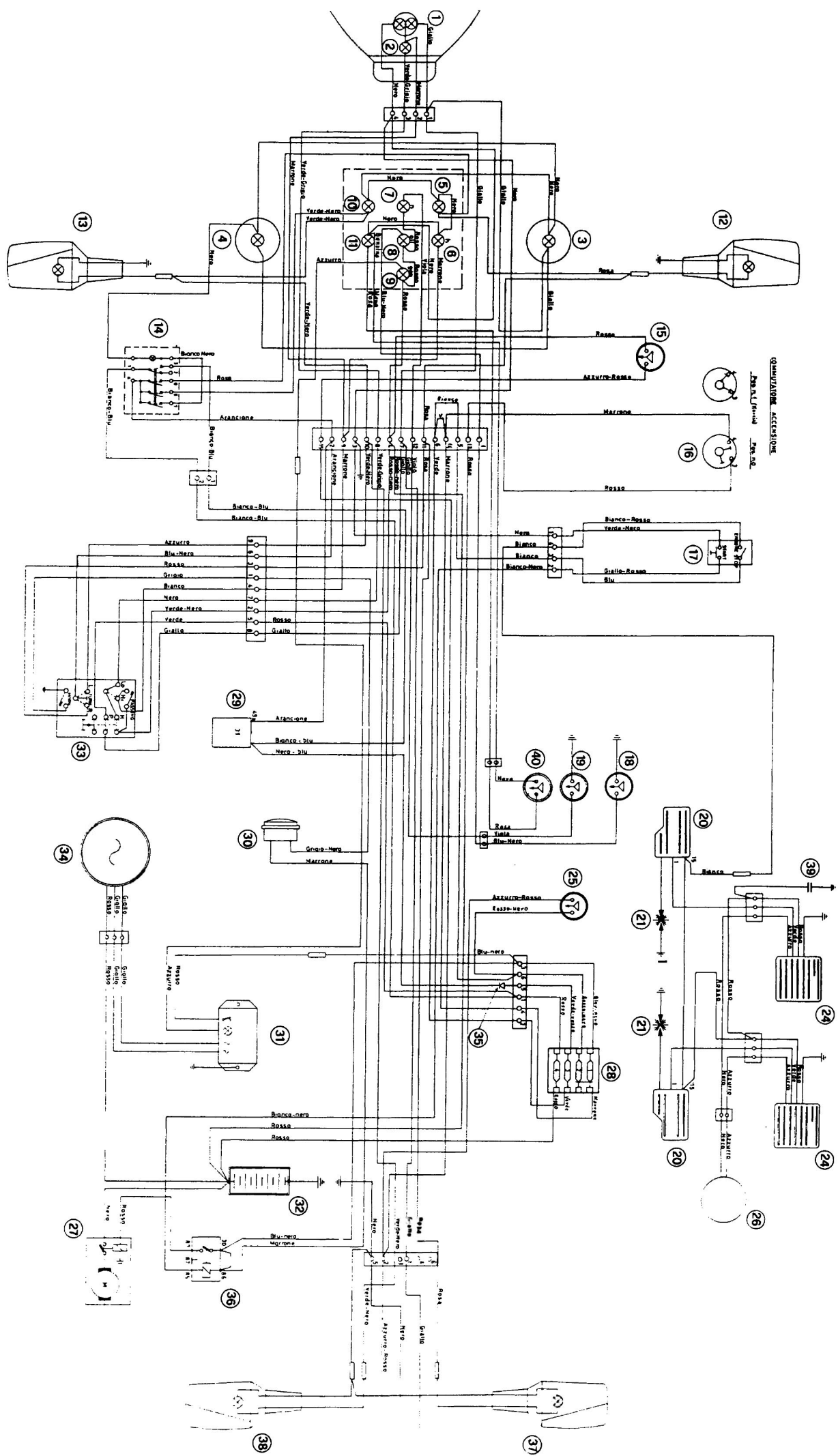
- Arancio = Orange  
Azzurro = Light blue  
Bianco = White  
Giallo = Yellow  
Grigio = Grey  
Marrone = Brown  
Nero = Black  
Rosa = Pink  
Rosso = Red  
Verde = Green  
Viola = Violet  
Azzurro-Rosso = Light blue-Red  
Bianco-Azzurro = White-Light blue  
Bianco-Bleu = White-Blue  
Bianco-Giallo = White-Yellow  
Bianco-Nero = White-Black  
Bianco-Rosso = White-Red  
Bleu-Nero = Blue-Black  
Giallo-Nero = Yellow-Black  
Giallo-Rosso = Yellow-Red  
Grigio-Nero = Grey-Black  
Nero-Bleu = Black-Blue  
Rosso-Bianco = Red-White  
Rosso-Bleu = Red-Blue  
Rosso-Nero = Red-Black  
Rosso-Verde = Red-Green  
Verde-Grigio = Green-Grey  
Verde-Nero = Green-Black  
Verde-Rosso = Green-Red



#### 17.4 Wiring diagram key 750 NTX

- 1 Bulb, main/dipped beam 45/40W
- 2 Bulb, front sidelights 4W
- 3 Odometer
- 4 Rev counter
- 5 Bulb, r/h front and rear lights warning light
- 6 Bulb, main beam warning light
- 7 Bulb, neutral warning light
- 8 Bulb, oil pressure warning light
- 9 Bulb, generator warning light
- 10 Bulb, r/h front and rear lights warning light
- 11 Petrol warning light
- 12 R/h front direction indicator
- 13 L/h front direction indicator
- 14 Emergency flasher switch
- 15 Front brake light switch
- 16 Ignition switch
- 17 Control switch: start/stop engine
- 18 Oil pressure switch
- 19 Neutral position switch
- 20 Ignition coil
- 21 Spark plugs
- 22 Number plate light and rear sidelight
- 23 Rear brake light
- 24 Electronic ignition control unit
- 25 Rear brake light switch
- 26 Pick-up
- 27 Starter motor
- 28 Fuse terminal board
- 29 Indicators blinker unit
- 30 Audible warning
- 31 Regulator
- 32 Battery
- 33 Control switch light: audible warning - lights switch
- 34 Alternator
- 35 3 Amp diode
- 36 Starter solenoid
- 37 R/h rear direction indicator
- 38 L/h rear direction indicator
- 39 Electronic ignition condenser
- 40 Fuel level switch

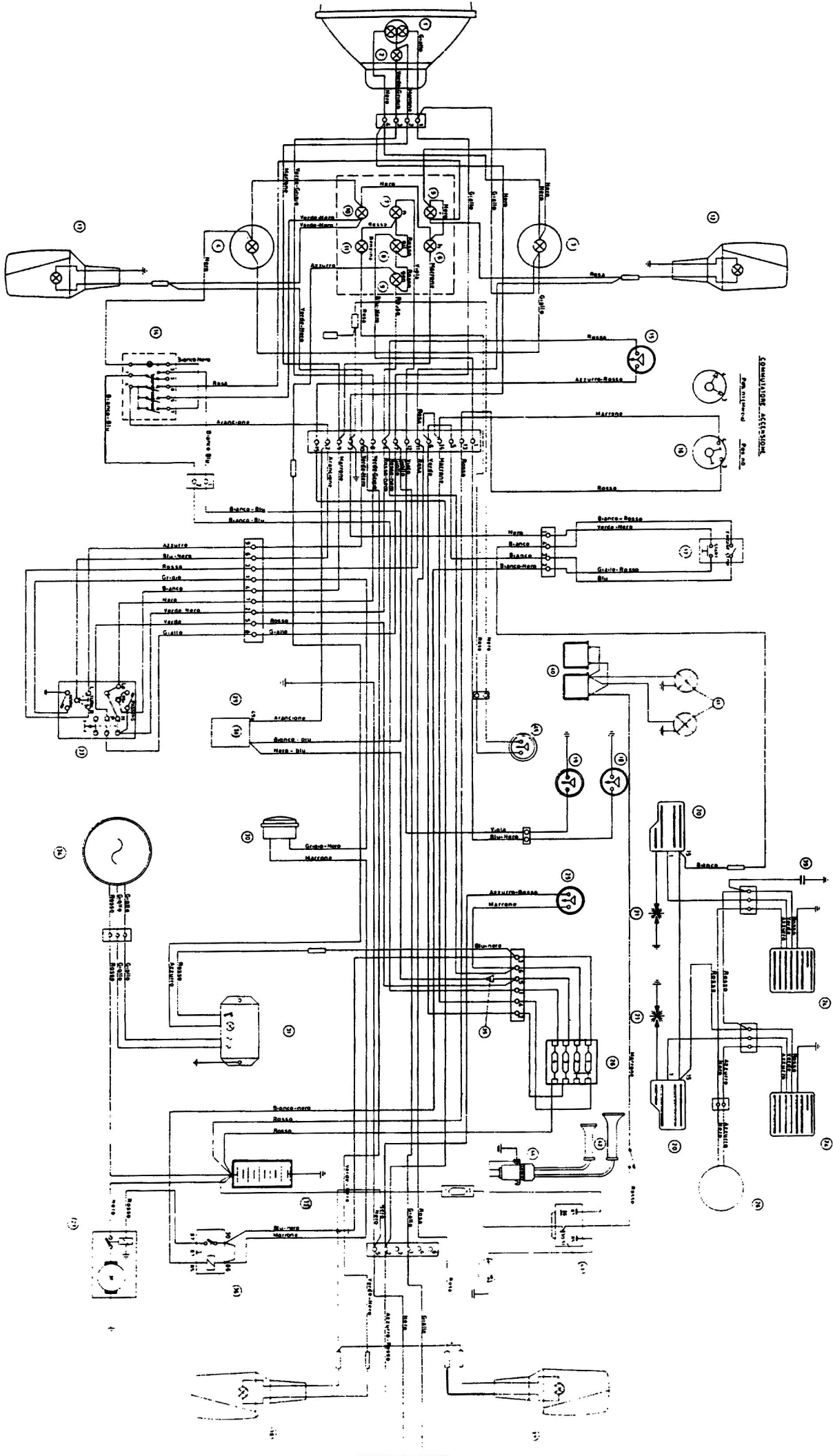
- Arancio = Orange
- Azzurro = Light blue
- Bianco = White
- Giallo = Yellow
- Grigio = Grey
- Marrone = Brown
- Nero = Black
- Rosa = Pink
- Rosso = Red
- Verde = Green
- Viola = Violet
- Azzurro-Rosso = Light blue-Red
- Bianco-Azzurro = White-Light blue
- Bianco-Bleu = White-Blue
- Bianco-Giallo = White-Yellow
- Bianco-Nero = White-Black
- Bianco-Rosso = White-Red
- Bleu-Nero = Blue-Black
- Giallo-Nero = Yellow-Black
- Giallo-Rosso = Yellow-Red
- Grigio-Nero = Grey-Black
- Nero-Bleu = Black-Blue
- Rosso-Bianco = Red-White
- Rosso-Bleu = Red-Blue
- Rosso-Nero = Red-Black
- Rosso-Verde = Red-Green
- Verde-Grigio = Green-Grey
- Verde-Nero = Green-Black
- Verde-Rosso = Green-Red



## 17.5 Wiring diagram key 750 X P.A.

- 1 Bulb, main/dipped beam 45/40W
- 2 Bulb, front sidelights 4W
- 3 Odometer
- 4 Rev counter
- 5 Bulb, r/h front and rear lights warning light
- 6 Bulb, main beam warning light
- 7 Bulb, neutral warning light
- 8 Bulb, oil pressure warning light
- 9 Bulb, generator warning light
- 10 Bulb, r/h front and rear lights warning light
- 11 Petrol warning light
- 12 R/h front direction indicator
- 13 L/h front direction indicator
- 14 Emergency flasher switch
- 15 Front brake light switch
- 16 Ignition switch
- 17 Control switch: start/stop engine
- 18 Oil pressure switch
- 19 Neutral position switch
- 20 Ignition coil
- 21 Spark plugs
- 22 Number plate light and rear sidelight
- 23 Rear brake light
- 24 Electronic ignition control unit
- 25 Rear brake light switch
- 26 Pick-up
- 27 Starter motor
- 28 Fuse terminal board
- 29 Indicators blinker unit
- 30 Audible warning
- 31 Regulator
- 32 Battery (12V-30Ah)
- 33 Control switch light: audible warning - lights switch
- 34 Alternator
- 35 3 Amp diode (1N5401)
- 36 Starter solenoid
- 37 R/h rear direction indicator
- 38 L/h rear direction indicator
- 39 Electronic ignition condenser
- 40 Blue lights blinker unit
- 41 Blue flashing lights
- 42 Two-tone horns
- 43 Two-tone horns relay
- 44 Two-tone horns compressor
- 45 Fuel level switch

- Arancio = Orange
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- Bianco-Rosso = White-Red
- Bleu-Nero = Blue-Black
- Giallo-Nero = Yellow-Black
- Giallo-Rosso = Yellow-Red
- Grigio-Nero = Grey-Black
- Nero-Bleu = Black-Blue
- Rosso-Bianco = Red-White
- Rosso-Bleu = Red-Blue
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