

U.S.A. SEARS

PIAGGIO & C. S.p.A. - GENOVA
Stabilimento di Pontedera

Busta di Collaudo

AGENTE DI VENDITA

ORDINE N.°

CLIENTE

MOTOVEICOLO **VESPA 125**

TELAIO N.° **VA14T 61350**

MOTORE N.° **VND5N 029478**

TIMBRO DEL COLLAUDATORE

Vannoni Luciano

Dis. N. 92062 M

DATA

1544 - 36.69

Impiegate esclusivamente ricambi originali PIAGGIO in quanto :

- corrispondono all'alto livello di qualità della produzione Piaggio essendo costruiti con materiali di elevate caratteristiche e controllati con i più moderni strumenti di precisione;
- sono i più economici in relazione alla loro qualità;
- prolungano la vita del veicolo in quanto sono perfettamente identici ai particolari di serie.

I ricambi originali « Piaggio » Vi assicurano quindi :

- qualità
- economia
- durata

Per le riparazioni rivolgetevi esclusivamente alle officine dei nostri Organizzati che, oltre ai ricambi originali, dispongono delle attrezzature specifiche atte ad assicurare la migliore esecuzione del lavoro.

ALLSTATE MOTOR SCOOTER

MODEL No. 788.94331

UNPACKING AND ASSEMBLY INSTRUCTIONS

To unpack and assemble the scooter, follow the procedure indicated below.

- 1. Unpacking the scooter and the parts secured to the cage, preparing units for assembly**
 - 2. Assembly of dismantled units**
 - 3. Final operations**
- (See also « PARTS LIST » - 4 - and FIGURES)

1. UNPACKING

- Unscrew nuts from bolts and threaded rods (1 and 2, see Fig. 1) thus releasing the cage from the bottom (3). Raise the cage and place it in the position indicated in Fig. 2.
- Remove the envelope shielding the scooter; then empty the tool box (Fig. 1, No. 4) and use the hand tools contained therein for removing the steering column from the cage side.
- Leave the handlebars in position on their support. Release them on the very moment you assemble the steering column. Remove nuts (5) securing the rear portion of scooter to the cage bottom and the nuts (6) fastening the bracket which secures the front part of scooter to the cage bottom.

If no proper working bench is available, place the scooter on the cage as indicated in Fig. 2.

- Place in order the parts removed from the cage sides and from the tool box. Clean carefully all components which had been greased to prevent rusting.
- Dismount bracket (Fig. 1, No. 7).

2. ASSEMBLING THE SCOOTER

a) - Steering column

- Unscrew nut (Fig. 1, No. 8) retaining threaded rod (Fig. 1, No. 9) which fixes handlebar support to scooter and remove said rod. Unscrew bolt (Fig. 3, No. 22) and retain for future fixing of handlebars to steering column, then separate support from handlebars. Clean top ball race (Fig. 2, No. 25) of steering column, taking care not to damage electrical wiring during said operation.

DESIGNED EXCLUSIVELY FOR AND SOLD BY SEARS ROEBUCK AND COMPANY

- Grease the lower race (24) of the top bearing with ALLSTATE ALL PURPOSE and mount the ball cage 77024 thereon; grease the lower race (10) of bottom bearing and place the ball cage 77023 thereon.

- Insert the key into the security lock and turn it to the position « open ».

- Slide the steering column in through the bottom of the steering cover, seeing that the control or electric cables are not damaged. Centralize the column properly by inserting a screwdriver through the top orifice; when the steering column just projects from said orifice, see that the roller cage is in its proper position. Lift the column until it is completely in its housing. Screw the upper race (11) by hand on the top thread, then tighten with proper wrench (14) until all endwise movement is eliminated but still the steering column rotates freely.

This may be checked by the following test: from «straight ahead» position, the weight of the assembly should cause the steering column to fall freely to either left or right. If the adjustment is too tight and the unit does not fall freely, loosen the race (11) until proper adjustment is obtained.

- Slide the lock washer (12) over the top end of the steering column, screw the locking ring (13) then tighten with hook wrench (14).

b) - Handlebars and speedometer Fig. 3.

- Insert the front brake control cable through the hole in the steering column, until it protrudes from the bottom, then place the handlebars on top of the steering column in proper position to secure with bolt (22) finger-tight.

- Remove the headlamp from its housing and pull the speedo flex drive upwards until the threaded ring (15) can be mounted onto the mating extension on the speedometer head. Insert the speedo. into its housing on the handlebars, lock in position using the apposite screw (23) and then carefully pull down the speedo. cable group from its lower extremity and then remount the headlamp.

During these operations the electrical wiring to the headlamp should remain connected.

c) - Front brake control cable

- Pass the lower end of the brake control cable (Fig. 2) through the hole of the adjuster screw (17), then through the hole in the bolt (18) between the brake links (19); tighten the nut (20).

When you adjust the front brake control cable, be sure that you leave a generous loop (Fig. 2, No. 21) from the point where the cable emerges from the steering column to the adjuster screw.

If this is not done, swinging of front suspension may tension the cable with consequent locking of front wheel.

- The adjustment of the control cable can be checked by rotating the brake drum. If rubbing is noted, loosen the nut (20) and allow the cable to slide back until wheel rotates freely, then tighten the nut again.

d) - Clutch control (Fig. 4).

- Press by means of a screwdriver on clutch control lever (« C ») and place the cable nipple into the slotted end of the lever.

e) - Wheels

- Make sure that the tyres are inflated to the prescribed pressures (see the booklet « Operating Instructions and Parts List of Allstate Motor Scooter Model 788-94331 », Sears, Roebuck and Co.), then fit the wheels (interchangeable), on respective flanges, assemble spring washers and tighten the nuts with the « T » wrench alternately and progressively, so that equal tension is applied to each stud.

3. FINAL OPERATIONS

a) - Lift the scooter from the assembly bench and place it on the ground, supporting it by use of its centre stand.

b) - By inspection align the handlebars in a plane parallel to a line drawn through the front axle, then tighten the bolt (Fig. 3, No. 22) to secure the handlebars firmly.

c) - Inspect the front brake control cable and, if necessary, adjust as prescribed above.

d) - Remove the rubber sheath from the breather (Fig. 4, No. 16) on the clutch cover. When required, the adjustment of the clutch control is achieved operating on adjuster screw (« A », Fig. 4) on the crankcase swinging arm. The cable is to be tensioned or loosened, as the case may be, so that the clutch control lever (« B »), on the handlebars, has a play of 2 mm (0.078") before the lever (« C »), on the engine, starts operating. Wrong play in the control may cause the clutch plates burning out even in normal running conditions.

e) - Remove the level screw from the oil filling hole on the crankcase as indicated on booklet « Operating Instructions and Parts List of Allstate Motor Scooter Model 788-94331 », Sears, Roebuck and Co.. With the scooter placed on its central stand on a level surface, the oil should just be about to flow out; otherwise top up.

f) - In neutral position, the gear change twistgrip must have a very short free rotation. In case of excessive play, adjust by means of the screws, in the gear shifter casing.

Before starting the engine, the rider should be thoroughly familiar and fully understand the instructions concerning operation, maintenance and refueling contained herein and in the booklet « Operating Instructions and Parts List for Allstate Motor Scooter Model No. 788 - 94331 » issued by SEARS, ROEBUCK AND CO.

ALL PARTS AND ACCESSORIES FOR THE SCOOTER MAY BE PURCHASED FROM YOUR SEARS MAIL ORDER STORE.

SEARS, ROEBUCK AND CO.

4. PART NOS. FOR COMPONENTS MENTIONED IN THE ASSEMBLING INSTRUCTIONS

Fig.	Number	Nomenclature	SEARS Part Number
3	22	Bolt securing handlebars to steering column	S. 12355
2	24	Lower race of top bearing of steering column	93041
2	10	Lower race of bottom bearing of steering column	55989
—	—	Ball cage for top steering column bearing	77024
—	—	Ball cage for top steering column bearing	77023
2	11	Upper race of top bearing of steering column	55986
2	12	Lock washer for top bearing of steering column	3751
2	13	Lock ring for top bearing of steering column	11109
2	14	Hook wrench (not in SEARS parts list)	18664
4	«A»	Clutch adjusting screw	2040
2	17	Front brake cable adjusting screw	2040
2	18	Pinch bolt	2036
2	19	Brake link	83608
2	20	Nut	S. 1207

If any part is missing, lost or broken, order it from the nearest SEARS retail or mail order store.

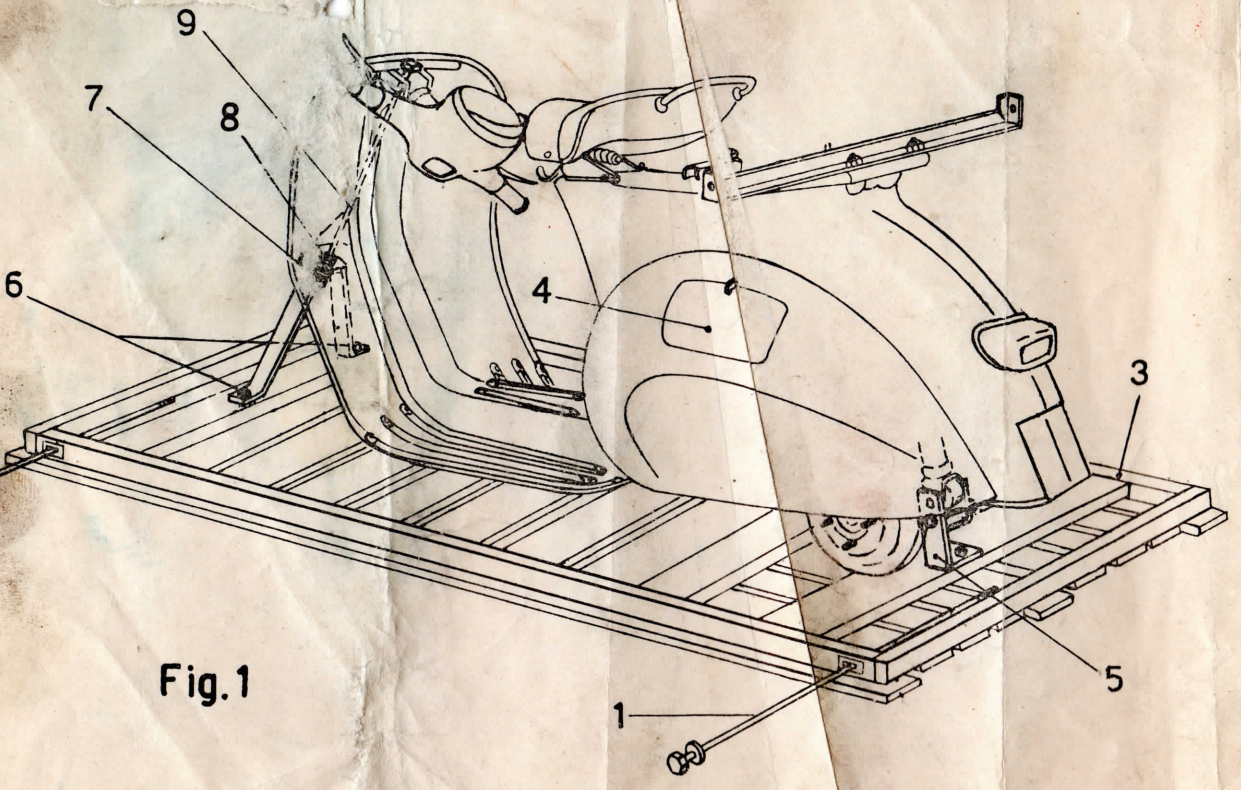
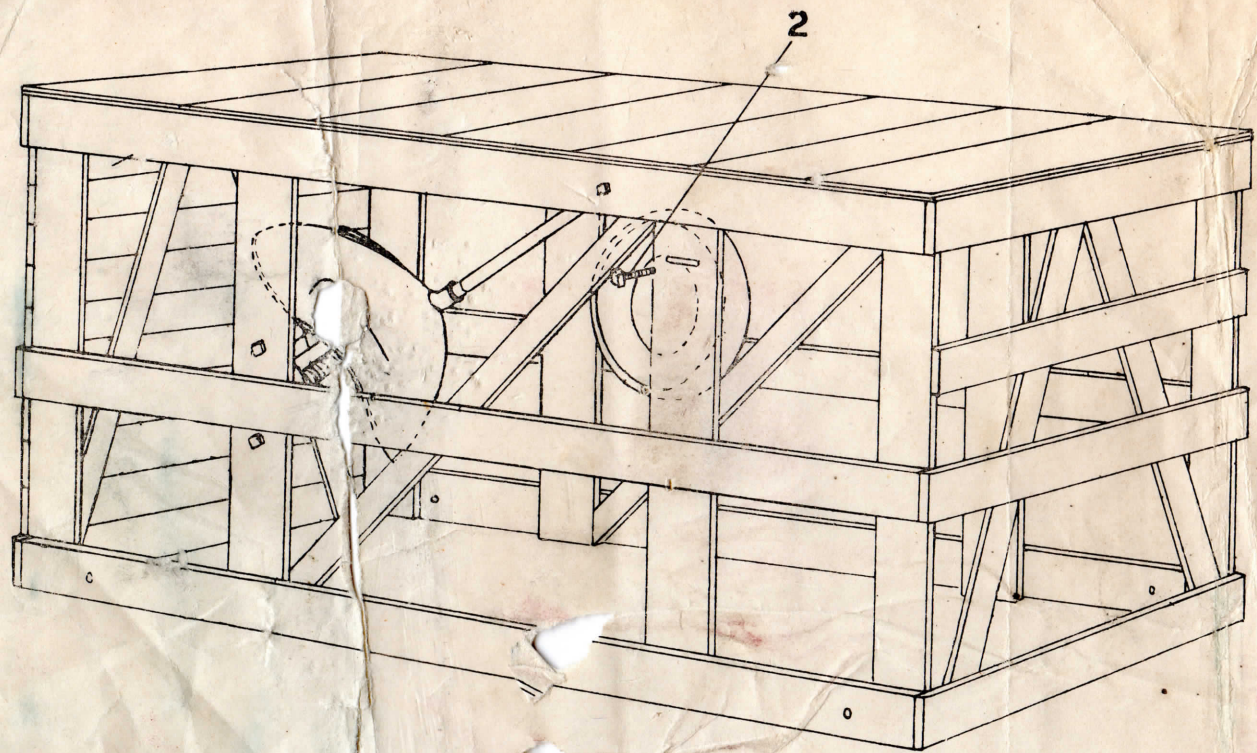


Fig. 1

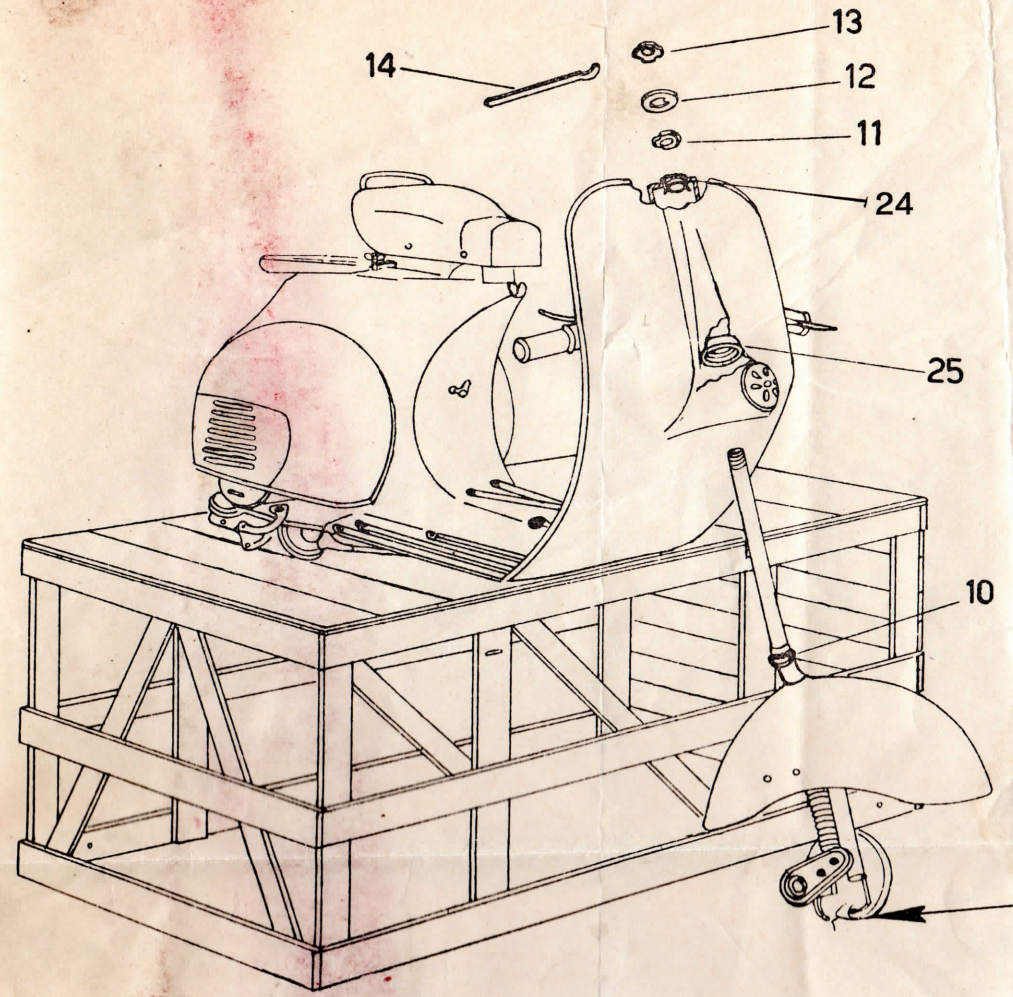


Fig. 2

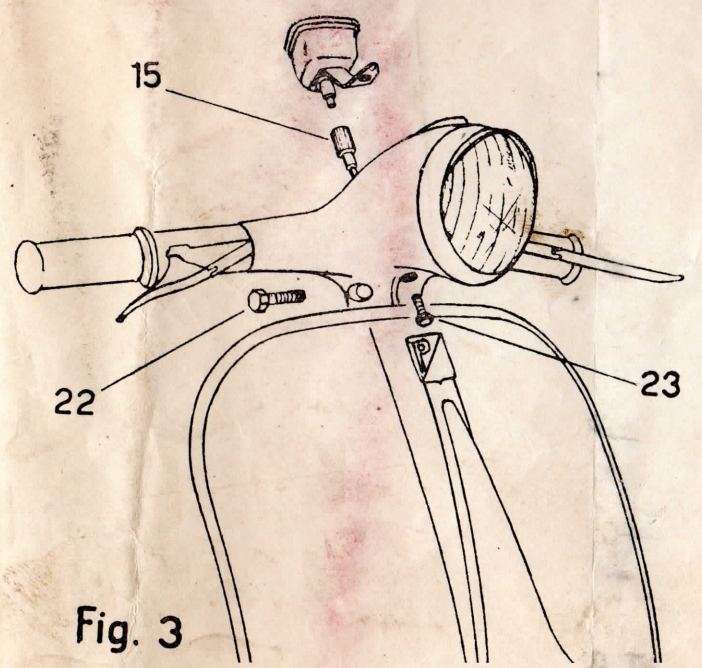


Fig. 3

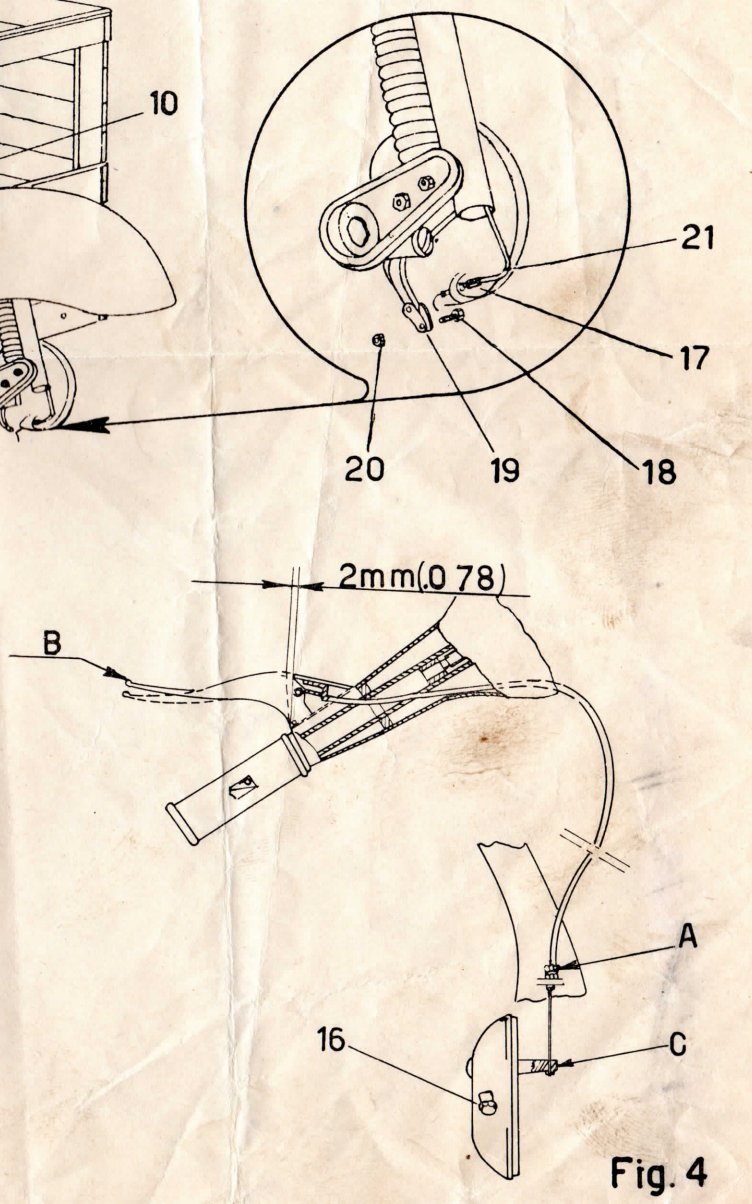


Fig. 4

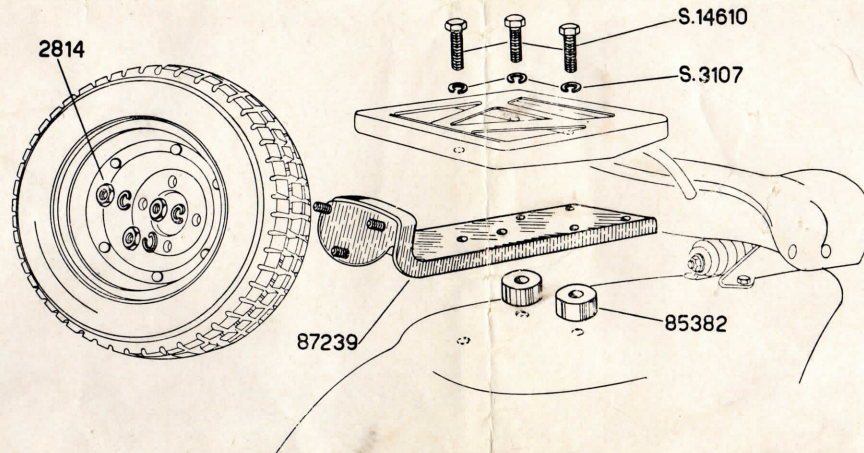
ALLSTATE - MOTOR SCOOTER

APPLICATION OF REAR SUPPORT BRACKET FOR SPARE WHEEL

(Motor scooters, Mod. 788.94494 and 788.94495)

Remove the three bolts which fix the luggage carrier to the frame and substitute with those S. 14610, (of major length) and relative washers S. 3107.

- Position the support so that three of the six holes drilled in it coincide with those on the frame, contemporaneously interposing two distance pieces, drg. 85382 in correspondence to the two holes at the rear of the tank edge.
- Remount the luggage carrier in its original position and block the above mentioned three bolts.
- Apply the spare wheel as indicated on the figure, positioning it onto the overhanging portion of the support by means of the projecting bolts and blocking with the relative nuts.



SEARS, ROEBUCK AND CO.

Dis. n. 88482 - 3000 / 6101

MOUNTING INSTRUCTIONS
9458 WINDSHIELD

A. BRACKETS

- 1) Mount "A" and "B" brackets on right side of handlebar (facing forward) with long post in front. Put rubber strip between bracket and handlebar.
- 2) Mount "C" and "D" brackets on left side of handlebar with long post in front. Put rubber strip between bracket and handlebar.

B. CLAMPS

- 1) Remove wing nut and separate.
- 2) Pass bolt through windshield, rubber washer and then clamp.
- 3) Bolt wing nut on loosely.
- 4) Remove plastic cap from end of post.
- 5) Slide clamp on to post.
- 6) Replace plastic cap.
- 7) Tighten wing nut.

C. APRON

- 1) Loosen screws on lower left and right corners of windshield.
- 2) Slide on apron.
- 3) Tighten screws.

ASSEMBLY, OPERATING INSTRUCTIONS AND PARTS LIST FOR ALLSTATE MOTOR SCOOTER

MODEL NUMBER 788.94331

The Model Number will be found on a plate fastened to chassis under the fuel cock. Always mention the Model Number in all correspondence regarding the ALLSTATE MOTORSCOOTER or when ordering repair parts.

HOW TO ORDER REPAIR PARTS

All parts listed herein may be ordered through SEARS, ROEBUCK AND CO. or SIMPSONS - SEARS LIMITED. When ordering spare parts by mail from the mail order house which serves the territory in which you live, selling prices will be furnished on request or parts will be shipped at prevailing prices and you will be billed accordingly.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST:

1. The PART NUMBER.
2. The PART NAME.
3. The MODEL NUMBER 788.94331.
4. The NAME of item - Motor scooter.

COAST TO COAST NATION-WIDE SERVICE FROM SEARS FOR YOUR ALLSTATE MOTOR SCOOTER



SEARS, ROEBUCK AND CO. and SIMPSONS - SEARS LIMITED in Canada back up your investment with quick, expert mechanical service and genuine ALLSTATE replacement parts.

If and when you need repairs or service, call on us to protect your investment in this fine piece of equipment.

**SEARS, ROEBUCK AND CO. - U.S.A.
IN CANADA, SIMPSONS - SEARS LIMITED**

INTRODUCTION

This model of motor scooter has a modern type of engine in which the distribution is realised by the crankshaft (rotary valve distribution); furthermore it is provided with a 4 speed gear box in order to run in excellent condition by climbing the most various slopes and to take the greatest possible advantage of its pick-up qualities.

The carburettor, installed on the crankcase, is in direct communication with the pre-compression chamber in correspondence to the external diameter of one of the crankshaft flywheels (see fig. 11): the periphery of the flywheel rotates very close to the crankcase, without touching it; a portion in the periphery of said web is ground off, and controls the fuel flow to the pre-compression chamber, thus acting as a rotary valve.

The recess on the web periphery has been shaped in such a way as to give the maximum volumetric efficiency, thus obtaining an asymmetrical distribution diagram.

It should be noted that crankweb and crankcase are kept gas tight by the film of oil which forms between them and not by direct contact; in this way the system is not subject to wear by friction, as is usually the case with similar devices.

The intake pipe is very short; it is therefore only the carburettor which slows down the flow of fresh charge to the engine.

The advantages of a correct feeding system are therefore clear; more power at low revs, and greater engine elasticity. The intake pipe leads into the pre-compression chamber and the fresh charge directly contacts the con. rod big end; in this way the bearings are so efficiently lubricated as to permit a reduction of the percentage oil content in the gasoline (2%).

The improvement which the rotary valve brings to the thermo-dynamic performance of the engine can be appreciated by considering the flatness of the power curve; this, as is well known, renders the engine capable of functioning over a wide rpm range and of adjusting itself automatically, with slight variation of speed, to all forms or resistance which the scooter must overcome (head wind, gradients etc.).

The proverbial climbing ability of this motor scooter is enhanced in this model. All gradients normally encountered on main roads can easily be climbed in 4th gear, even with two people on board; the most various slopes can be climbed at speed in 3rd or 2nd gear, while the 1st gear gives initial acceleration and is particularly useful on bad surfaces and side roads.

Another advantage of the rotary valve is that it eliminates back pressure, i. e. prevents some of the fresh fuel from being pushed back from the pre-compression chamber towards the carburettor and wasted, at the beginning of the downward stroke of the piston.

Engine performance is also improved by the use of a spherical headed piston and a combustion chamber on the cylinder head of a special form to give to higher turbulence, thus resulting in higher compression ratio and thence increase in both specific power and out-put.

In conclusion, for easing starting the carburettor has been equipped with a starter jet and is of the type mounted on automobiles. It is housed in the air cleaner, has a plate-shaped slide valve and immersed jets: this has reduced fuel consumption and improved the general performance of the engine.



Fig. 1 - ALLSTATE «Cruisair» Motor Scooter

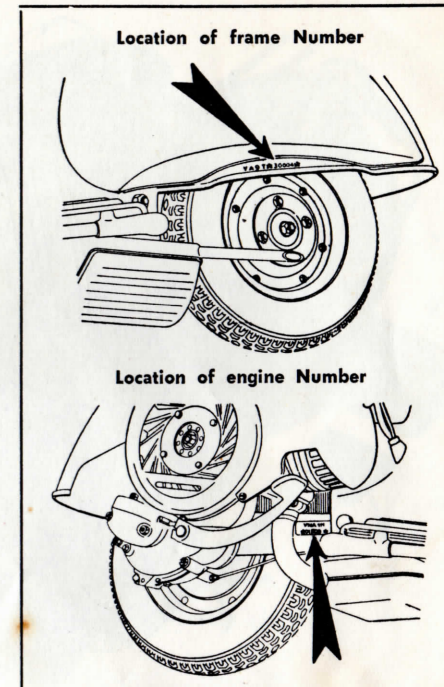


Fig. 2 - Location of serial number

Serial numbers are preceded by prefixes: V A 14 T, for frame; VNB 5 M, for engine.

WARNING

In order to keep your ALLSTATE Scooter in perfect running condition and not to void the guarantee, always have your machine repaired at a Sears, Roebuck and Co. Store.

Special care should be taken with regard to the fuel mixture which should be **regular gasoline** and oil of

the make, grade and in the amount prescribed in this booklet.

Ethyl gasoline should never be used.

Do not use Allstate compounded motor oil or other Premium Heavy Duty Oil with detergents.

The inexperienced operator should exercise caution in applying front wheel brake, to avoid locking.

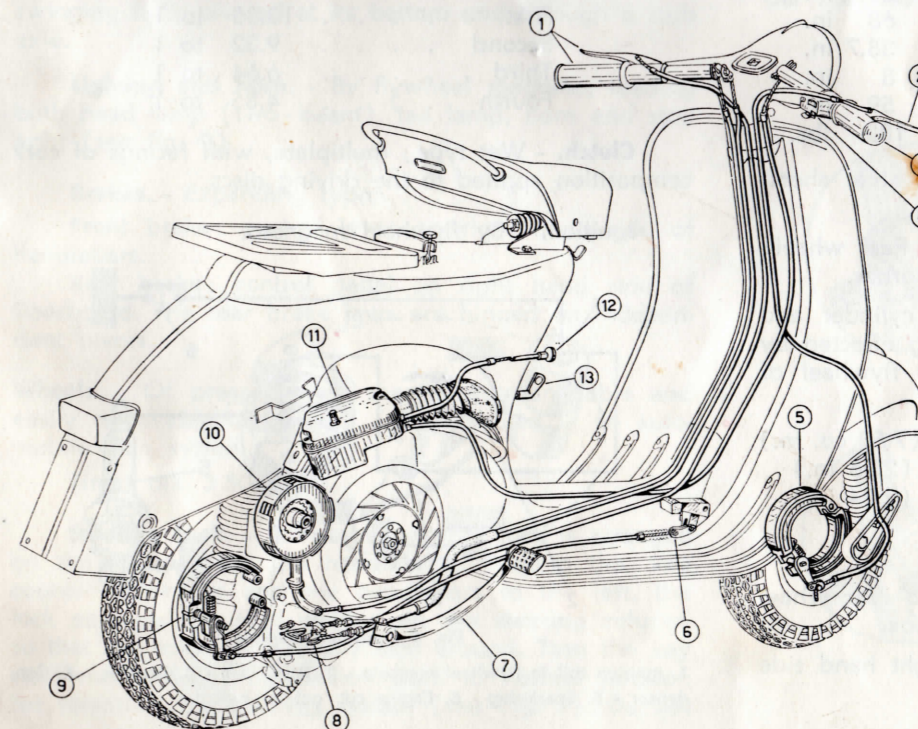


Fig. 3 - Controls of Allstate Scooter

1. Gear change twistgrip with clutch control lever - 2. Front brake lever - 3. Throttle control grip - 4. Light and dimmer switch - 5. Front brake jaws. - 6. Rear brake pedal - 7. Kickstarter - 8. Gear shifter - 9. Rear brake jaws. - 10. Clutch - 11. Carburettor, air cleaner - 12. Starter push pull rod - 13. Fuel cock.

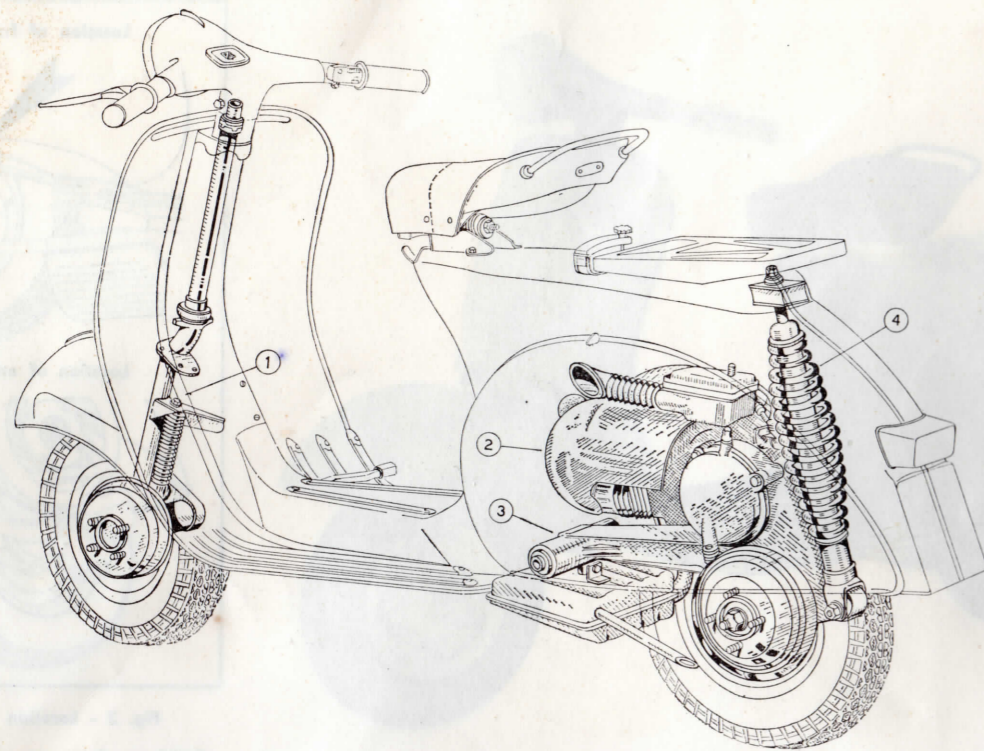


Fig. 4 - Engine installation and suspensions.

1. Steering column and front suspension - 2. Engine - 3. Crankcase half, clutch side, with swinging arm - 4. Rear suspension spring with hydraulic damper.

MAIN SPECIFICATIONS

Fuel consumption:

(Gasoline - oil mixture)	130 miles per gal.
Max. speed	46.6 m.p.h.
Wheel base	46.4 in.
Max. width on handlebars	25.7 in.
Max. length of the scooter	68 in.
Max. height	38.7 in.
Min. height of floorboard	8 in.
Turning circle	59 in.
Weight (unladen)	182 lbs.

Frame. - Of pressed and spot-welded steel sheet, with stream-lined monocoque-type structure.

Suspension. - Front wheel: coil spring. Rear wheel: coil spring and coaxial hydraulic shock absorber.

Engine. - Two-stroke, flat cast iron cylinder and cast aluminium alloy cylinder head. Cooling effected by centrifugal fan which is embodied in the flywheel of the magneto.

Displacement	123.4 cc. (7.53 cu. in.)
Bore	52.5 mm. (2.06 in.)
Stroke	57 mm. (2.24 in.)
Effective power at 5000 rpm	4.6 HP
Compression ratio	7 : 1

Transmission. - Directly from engine to rear wheel through clutch, cushion drive and gear box.

Starting. - By means of kickstarter, right hand side of scooter.

Gear box. - 4-speed drive with mesh gears in oil bath. Its two-cable control is coupled with that of the clutch, on left hand side of handlebars.

Engine to wheel transmission ratios:

First	13.35 to 1
Second	9.32 to 1
Third	6.64 to 1
Fourth	4.85 to 1

Clutch. - Wet type; multiplate, with facings of cork composition applied to the driving discs.

Ignition. - By flywheel magneto.

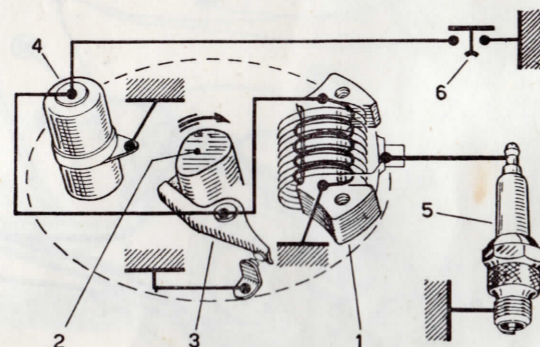


Fig. 5 - Ignition diagram

1. Ignition coil in flywheel magneto - 2. Rotor cam - 3. Breaker - 4. Condenser - 5. Sparkplug - 6. Engine cut-out on switch.

Lubrication. - By the oil in fuel mixture for piston, cylinder, wrist pin, con. rod, crankshaft, main bearings. Both clutch and gear box operate in oil bath.

Carburettor. - With float-chamber (see fig. 11); air cleaner mounted on the engine. Air goes to the carburettor through a large inlet tube and a silencing chamber with filter.

Model of carburettor: Dell'Orto SI 20/15 C - Venturi 15 mm. (0".59) - Main jet 82/100 (0".0323) - Idler jet 42/100 (0".0163) - Air-vent for main jet 120/100 (0".0473) - Air hole on mixer top 150/100 (0".05) - Mixer tipe BE 1. - Air-vent to idler jet 140/100 (0".055) - Spray nozzle 200/100 (0".0788) - Starter jet 55/100 (0".0216) - Float chamber fuel level 20.5 ± 1 mm. (0".87) - Oil recovery vent 50/100 (0".0197).

Feeding. - Fuel feed to the carburettor is provided for by gravity (see fig. 11) with gasoline-oil mixture.

Fuel tank. - Total capacity: 2,03 gals.; Reserve: 1/3 gal.;

Three-way cock: « open » - « closed » - « reserve ».

Muffler. - Expansion and absorption combined type.

Handlebars. - Pressure die cast in light alloy and designed so as to house both headlamp and speedometer. All the control cables and electrical wires to this group are concealed therein. (See fig. 3).

Steering column. - The steering column bears the handlebars, clamped on its top end, and the front wheel swinging hub, pivoted at its bottom end through a stub axle.

Lighting and horn. - By flywheel magneto, feeding both head lamp (two-beam), tail lamp, horn and stop light (see fig. 9).

Brakes. - Expanding type.

Front brake: control lever on right hand side of handlebars.

Rear brake: control pedal on right hand side of floorboard. The rear brake jaws are hinged on independent pivots.

Wheels. - Of pressed steel sheet, interchangeable and easily removable, since they are assembled in an automobile-like system.

Tires: dia. 3.50 x 8 in.

Steering Lock. - A suitable security lock is arranged on the frame, near the handlebars. Turning the key counter-clockwise and the handlebars to the left, the lock engages the lugs welded on the steering column, so that the machine can only turn around. Turn the key clockwise and the handlebars back to normal position for releasing the steering system (see Fig. 7). Do not

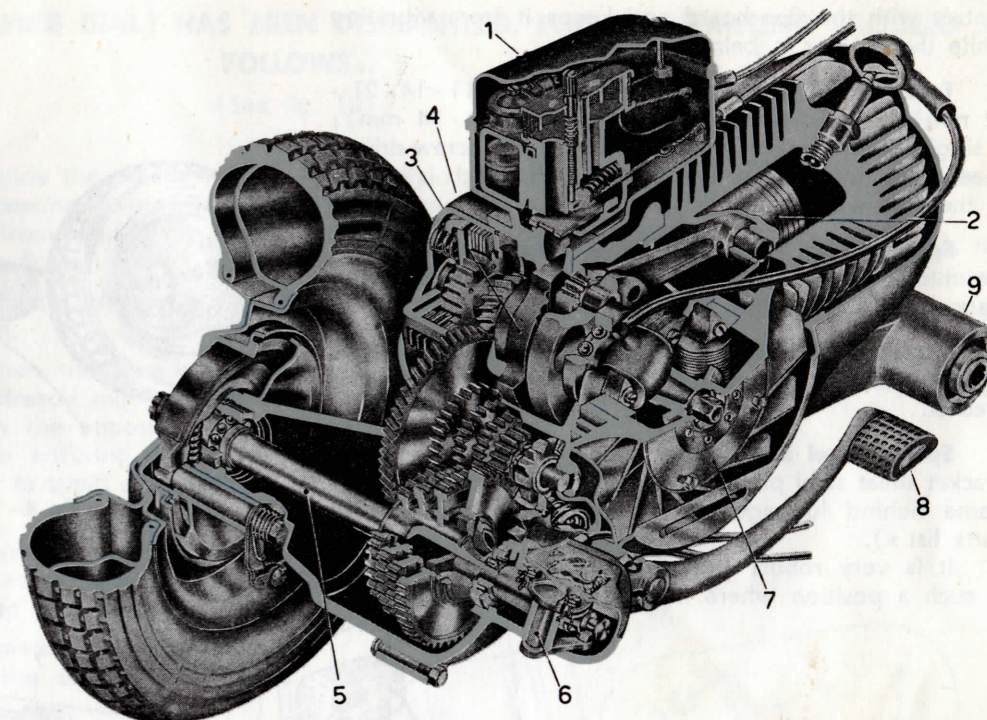


Fig. 6 - Section of engine

1. Air cleaner and carburettor - 2. Piston - 3. Crankshaft - 4. Clutch - 5. Mainshaft - 6. Gear shifter - 7. Flywheel magneto - 8. Kickstarter - 9. Crankcase half, clutch side, with swinging arm.

attempt to ride the machine unless the key is in, and remains in the lock, and the handlebars are moving freely.

Do not lubricate the steering lock.

Security lock on tool box wing. - The compartment flap on the left wing of the vehicle is equipped with a key operated security lock.

Central Stan. - A two-legged stand is arranged under the floorboard. A strong return spring holds it in

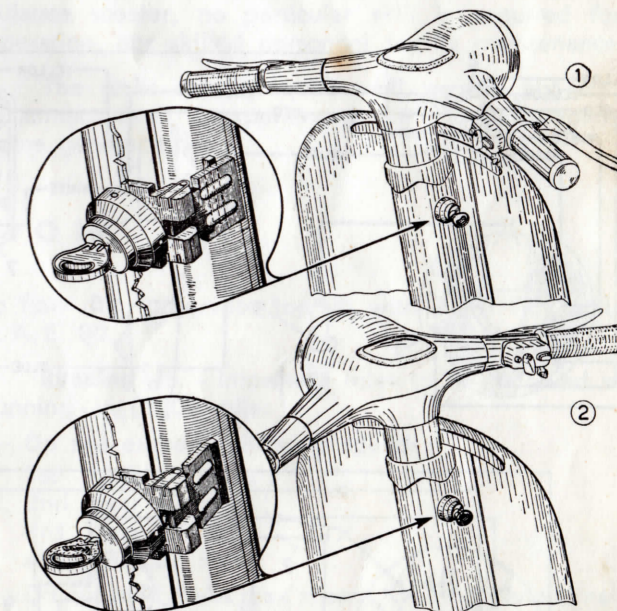


Fig. 7 - Security lock

1. Normal position - 2. Closed

contact with the floorboard and keeps it from vibrating while the scooter is being ridden.

Tool Kit. - 1 four-ended box wrench (11-14-21-22 mm); 1 double open-ended wrench (8-14 mm); 1 single open-ended wrench (7 mm); 1 screw-driver. These hand tools are contained in a roll which is placed in the left wing.

Speedometer. - The speedometer has its housing in the middle of the handlebars and adds to the performance and appearance of the scooter.

Accessories (See Table XX). - On request the Allstate scooter can be equipped with the spare wheel and bracket.

Spare wheel and bracket (see fig. 8). - The wheel bracket sheet steel pressing, can be secured to the scooter frame behind luggage carrier (see Table XX, « Spare parts list »).

It is very robust and simple and holds the wheel in such a position where it is easily accessible.

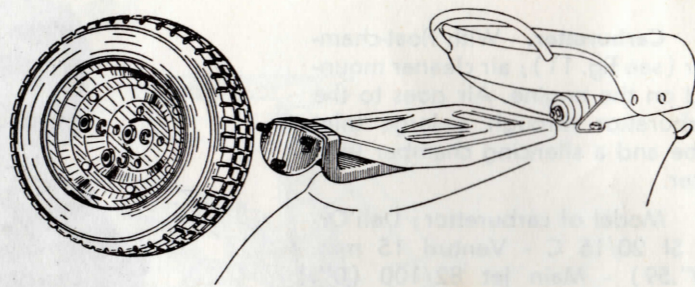


Fig. 8 - Spare wheel and bracket

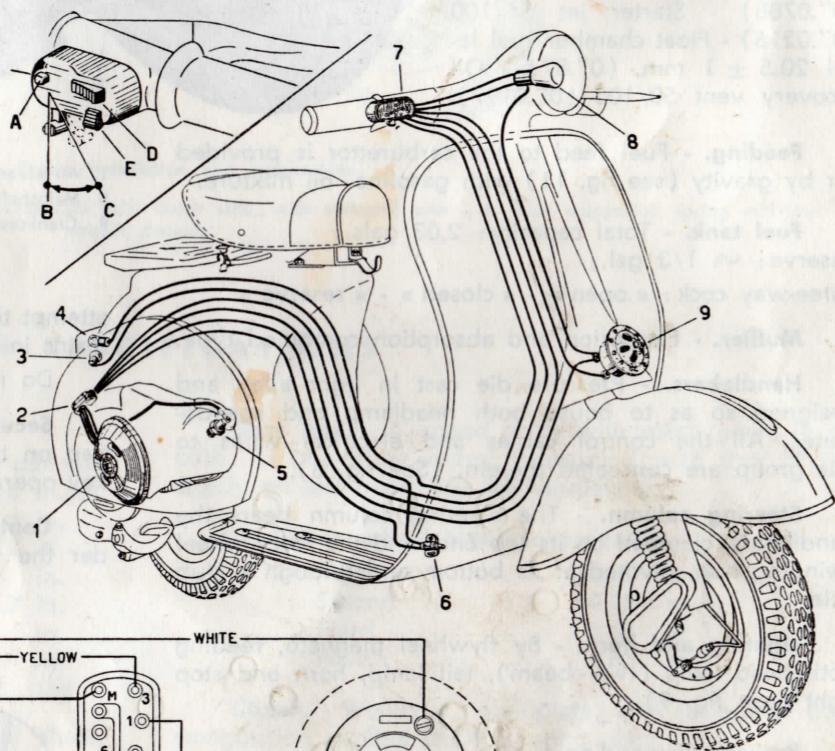
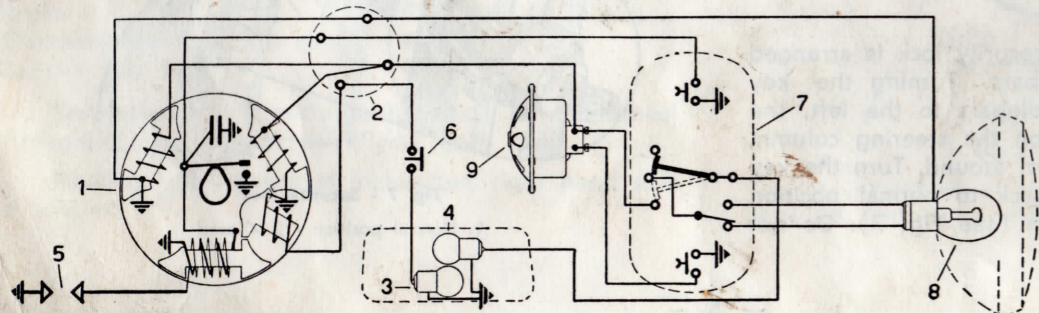
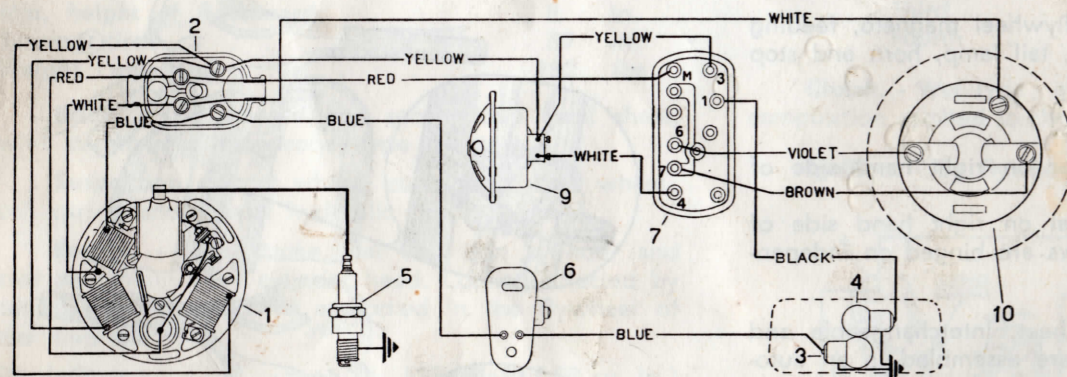


Fig. 9 - Scheme of Electric Wiring

1. Flywheel magneto - 2. Low tension terminal - 3. STOP light (6 V - 3 W bulb) - 4. Tail lamp (6 V - 3 W bulb) - 5. Sparkplug - 6. STOP switch - 7. Light and dimmer switch - 8. 6 V - 22/22 W double filament bulb - 9. Horn - 10. Inside view of head lamp - A: Engine cut-out; B: Lights off - C: Head lamp and tail lamp on - D: Lever for country and traffic beam - E: Horn button.



IF THE SPEEDOMETER (WITH MILE DIAL) HAS BEEN DISMANTLED, FOR REASSEMBLING PROCEED AS FOLLOWS:

(See fig. 10)

- With the help of a pilot wire slide the sheath « A » for the flex drive, into the steering column, from the top end, until it emerges from the bottom end (indicated with an arrow in the figure).
- Pull the pilot wire out of the sheath, grease the flex drive generously and slide it in.
- Assemble packing « C » and then the speedometer head « B » on the bracket E, already mounted with rubber buffer « F » fixing with the apposite screw « U » and spring washer « T » ensuring that said screw is not tightened too firmly to avoid deformation of the speedometer head.
- Insert the upper end of the flex drive into housing in the speedometer head and secure both flex drive and sheath by means of knurled ring nut « G ».
- Now secure the group speedometer and bracket to the handlebars by means of the screw « S » and plain washer « R ».
- Completed the above operations reassemble the head-lamp.
- Fill up hub with grease in order to lubricate the portion of the wheel spindle meshing with the speedometer drive pinion « I ».
- Mate the pinion « I » to the support bush « L », then mount ring (with lubricator) « K » on the latter; screw the support bush « L » on the wheel hub. If an axial play between drive pinion and centre pin of 0.25 to 0.8 mm. (0".01 to 0".03) is not obtained on assembling the part « L » into the hub, interpose the spacer washer « M ».
- Slide the rubber cap « N », the threaded ring « O » and biconical ring « P » over the sheath end; fit the washer « Q » on the cable portion which protrudes from the sheath, pass the latter between the front brake control cable and the wheel, then screw and tighten threaded ring « O » on bush « L » and position rubber cap « N ».
- Ensure that the end of the flex drive is accurately

- lodged in the square cut-out of the speedo. drive pinion.
- Make sure that the end of the flex drive enters the square section hole of the speedometer drive pinion.
- Rotate the wheel by hand for several times in order to make sure that it turns freely.
- Grease pinion « I » - support bush « L » assy through lubricator on ring « K ».

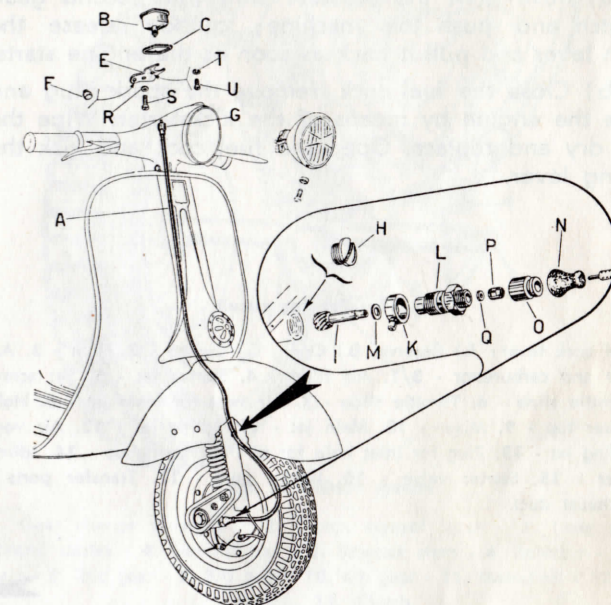


Fig. 10 - How to assemble the speedometer unit

Due to the simple and conventional design of the Allstate scooter, no particular skill is required for its operation, nor skilled personnel for its maintenance.

The tasks can be quite well carried out by any customer, even inexperienced, by carefully following some general rules.

OPERATION

Fuel supply. - Fuel mixture, both during and after running in, should be composed of regular gasoline and pure mineral oil SAE 30 at 2%, i. e.:

- ¼ pint of oil 1½ gallons of gasoline.

When using pre-diluted or additive oils, or oils for outboard motors, mix ¼ pint of oil per gal.

Keep the breather of filling cap clean.

Oil level. - Remove the level screw, on crankcase, marked « OLIO » as indicated on page 11 Fig. 20, to check oil level in gear box before starting the engine. The scooter standing upright, oil should just be about

to flow out; otherwise top up with ALLSTATE REGULAR S. A. E. 30.

Running-in. - Important rules to be followed while running-in (1200 miles):

- Do not exceed following speeds:
 - 1st gear 13 mph.
 - 2nd gear 19 mph.
 - 3rd gear 25 mph.
 - 4th gear 37 mph.
- Do not hold these max speeds for long periods neither use full throttle opening up-hill.
- Change oil in the gear box and check that nuts and bolts are not slack after the first 600 miles.

Starting. - Open the fuel valve, put the gear box in neutral and slightly open the throttle in slow running position, kick the starting lever.

With cold engine, operate starter push pull rod. Push said rod back as soon as the engine fires.

See Fig. 11; note the three positions of the fuel valve: open, closed, reserve.

Caution. - Do not open throttle wide when releasing clutch.

In case of starting troubles, due to engine being flooded (unvaporized fuel mixture has reached the cylinder and combustion becomes therefore very difficult), proceed according to either one of the following methods:

a) Push-start the scooter: shift into second gear, declutch and push the machine; quickly release the clutch lever and pull it back as soon as the engine starts.

b) Close the fuel cock, remove the spark plug and rotate the engine by means of the kickstarter. Wipe the plug dry and replace. Open the fuel cock and kick the starting lever.

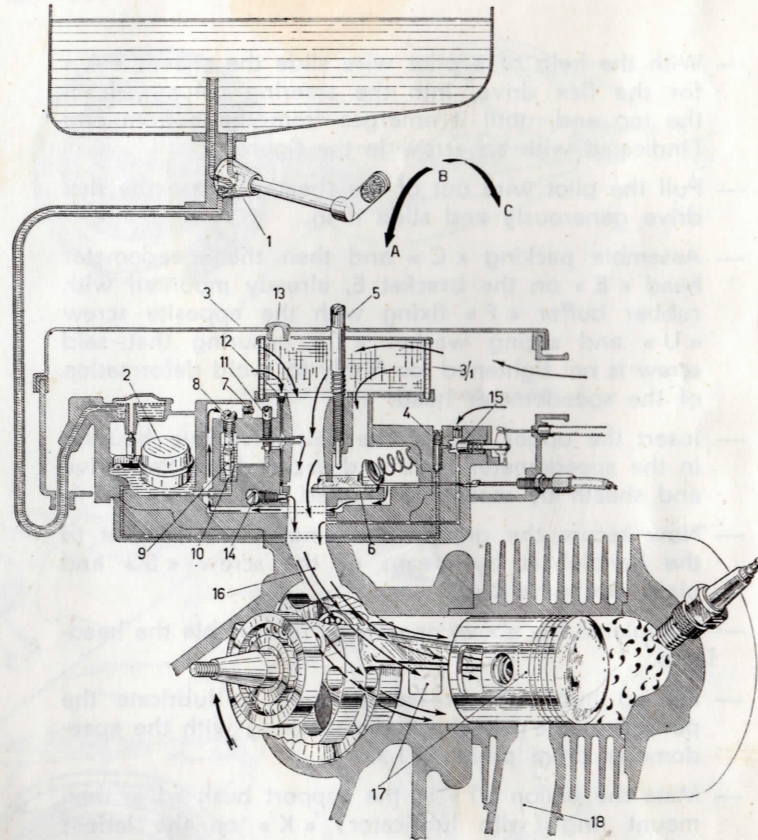


Fig. 11 - Feeding circuit

1. Fuel cock lever: A) Reserve, B) Open, C) Closed - 2. Float - 3. Air cleaner and carburettor - 3/1. Air filter - 4. Starter jet - 5. Set screw for throttle slide - 6. Throttle slide - 7. Air vent for main jet - 8. Hole on mixer top - 9. Mixer - 10. Main jet - 11. Idling jet - 12. Air vent for idling jet - 13. Plug for inlet hole for oil: for laying up - 14. Idling adjuster - 15. Starter valve - 16. Intake port - 17. Transfer ports - 18. Exhaust duct.

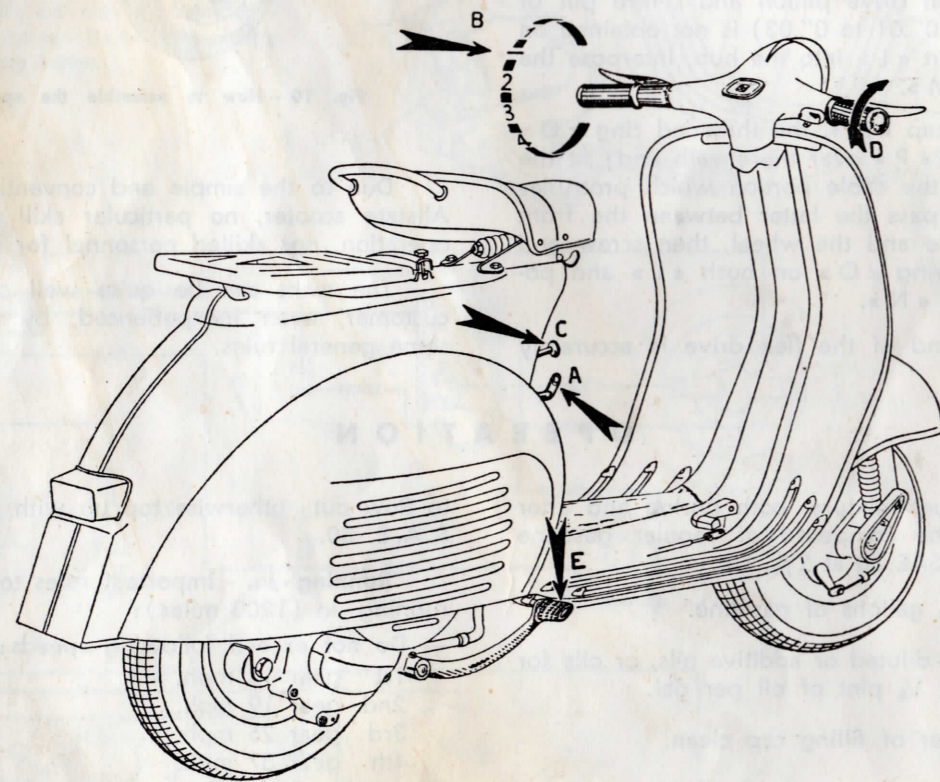


Fig. 12 - Operations to carry out for starting the engine

A: open the fuel cock - B: select « neutral » - C: operate starter push pull rod (with cold engine) - D: throttle control grip in idling position - E: depress the kickstarter and turn grip « D » by short strokes.

For access to the engine, take off the engine cowling, then proceed as follows.

— Pull the lever « 1 » (Fig. 13) and turn it so as to release it from bonnet. Then move the bonnet slightly outwards, until front pivot « 2 » is extracted from the hole on the frame.

— Push the bonnet from the front upwards and turn it (see position indicated by dotted line), thus releasing the fixing hook « 3 » from frame.

— Move bonnet outwards round its hooked pivot « 4 » until the latter disengages from the hole on frame. Thus the bonnet is removed.

For re-assembly, follow the reverse procedure.

Setting the machine in motion. - Let the engine idle, depress the clutch and turn the gear change twistgrip so that the line engraved on it coincides with the figure « 1 » (1st gear) engraved on handlebars (see Fig. 14). Now let in the clutch gently, while opening the throttle gradually to set the machine in motion.

Gear change. - On attaining the required speed in 1st gear, quickly close the throttle, release the clutch and turn the gear change twistgrip so that the engraved line coincides with figure « 2 » (2nd gear); let in the clutch and open the throttle.

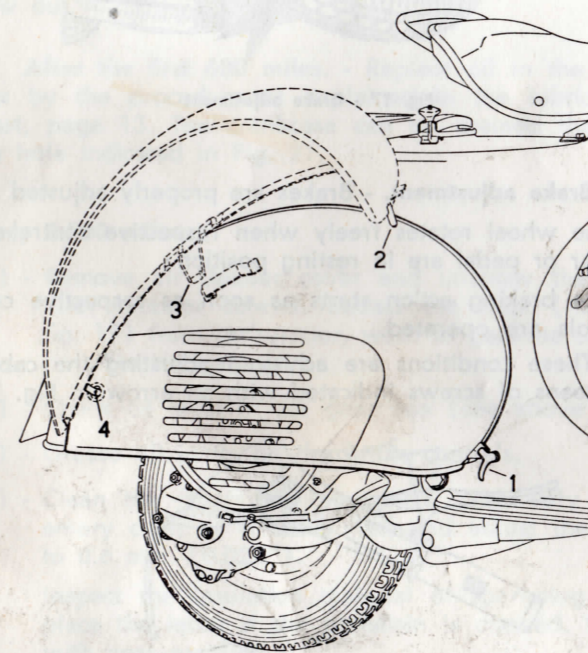


Fig. 13 - Engine bonnet removal

1. Engine bonnet locking lever - 2. Front pivot - 3. Fixing hook - 4. Hooked pivot

Repeat this procedure for changing into 3rd and 4th gear and for changing down.

See the drive system on Fig. 14.

When you reduce the speed of your machine, change down without delay to avoid irregular engine running and stalling at low revs.

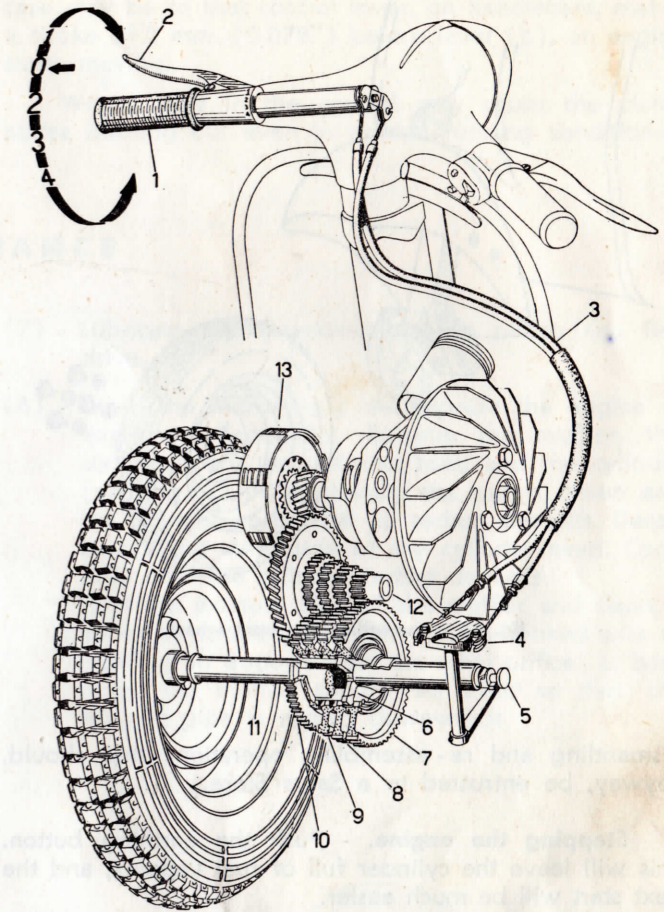


Fig. 14 - Drive system

1. Gear change twistgrip - 2. Clutch control lever - 3. Gear change control cables - 4. Gear shifter - 5. Selector stem - 6. Selector - 7. 1st gear - 8. 2nd gear - 9. 3rd gear - 10. 4th gear - 11. Mainshaft - 12. Cush gear - 13. Clutch.

N. B. - Positions 1-2-3-4 of the gear change twistgrip correspond to 1st, 2nd, 3rd and 4th gear respectively; « 0 » indicates the neutral position.

Do not turn the gear change twistgrip while the engine is not running.

As soon as gear change troubles arise, particularly when the control becomes hard, customers should have their machines adjusted by a Sears Store.

Slow running adjustment. - No hand tool is required for this job. Idling revs can be raised or reduced respectively by simply tightening or slackening the knurled slotted screw on air cleaner steel sheet cover (No. 5, Fig. 11). This screw controls the throttle slide valve.

The adjuster screw for the throttle control cable is installed on the air cleaner case. This screw is to be reset only when necessary and while dismantling and re-assembling. Opposite to said adjuster screw there is on the air cleaner case a plugged hole for access to another screw (spring loaded); see Fig. 11 No. 14. This screw controls the flow of carburated air through the duct from the idling jet, and consequently the idling revs. We recommend that customers refrain from resetting this screw unless absolutely necessary or during

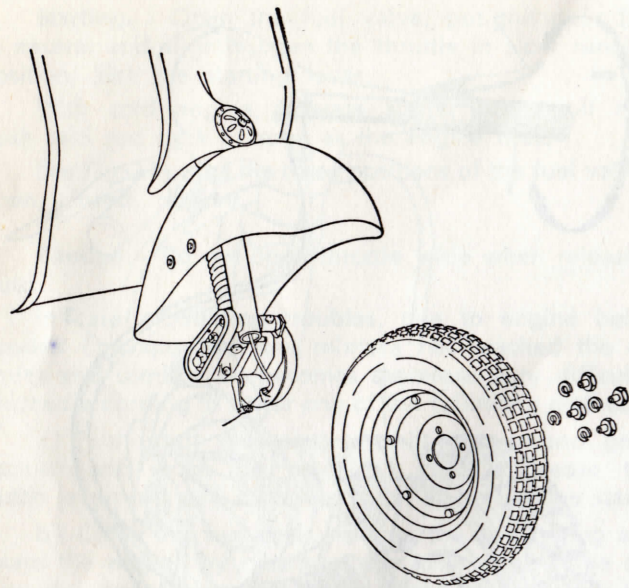


Fig. 15 - Dismantling the front wheel.

dismantling and re-assembling operations that should, anyway, be entrusted to a Sears Store.

Stopping the engine. - Push the earthing button. This will leave the cylinder full of fuel vapours, and the next start will be much easier.

Tires. - The wheels are interchangeable, i. e. they can be assembled either in front or rear, provided of course that they are inflated to pressures respectively hereunder prescribed.

When a flat tire is to be replaced, unscrew the four nuts which secure the wheel to its flange, pull wheel sideways off the studs (see Fig. 15), repair it or replace with spare wheel.

To remove the tube, first deflate, then separate the felloe from the ring by unscrewing the nuts which join them (see Fig. 16).

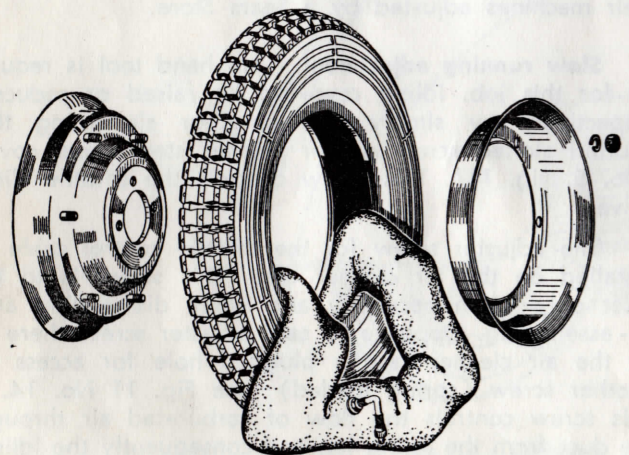


Fig. 16 - Removing the inner tube

Tire pressure should be 18 ÷ 20 psi on rear wheel, 14 ÷ 15,5 psi on front wheel. If the Allstate is ordinarily ridden by both driver and passenger, the pressure of the rear tire should be 28,5 ÷ 31 psi.

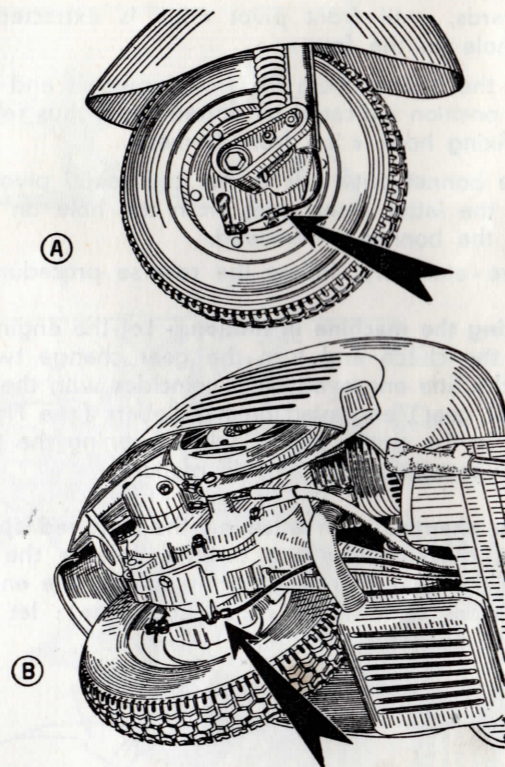


Fig. 17 - Brake adjustment

Brake adjustment. - Brakes are properly adjusted if:

- the wheel rotates freely when respective control lever or pedal are in resting position;
- the braking action starts as soon as respective controls are operated.

These conditions are achieved adjusting the cables by means of screws indicated with an arrow in Fig. 17.

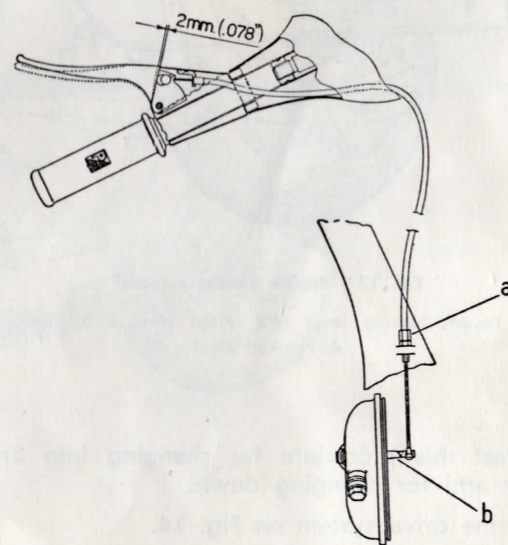


Fig. 18 - Adjustment of clutch control

a) Adjusting nut - b) Clutch lever, engine side

Adjustment of clutch control. - Adjustment of clutch controls is achieved operating on adjusting nut (a), screwed to the engine bracket (see Fig. 18), by means of open ended wrench 82199 in the tool roll.

The cable is to be tensioned or loosened, as the

case may be so that control lever, on handlebars, makes a stroke of 2 mm. (0.078") before lever (b), on engine starts moving.

Wrong play in the control may cause the clutch plates burning out even in normal running conditions.

MAINTENANCE

Cleaning the scooter. - Brushing kerosene and wiping dry clean rags is advisable for external cleaning of engine.

All painted surfaces should be washed with water, rinsed by means of a sponge and wiped dry with a chamois. Do not use kerosene on such surfaces, since it damages paint and turns it dull.

If necessary, blow the head lamp reflector clean or wipe off dust with a very soft feather. Do not use a cloth and keep your fingers off reflector surface.

Before setting the machine in motion, (if it has been delivered directly to the customer by the Factory) check oil level in gear box by unscrewing the level screw marked « OLIO » from the crankcase (see Fig. 21). The scooter standing upright, oil should just be about to flow out.

After the first 600 miles. - Replace oil in the gear box by the procedure as explained in the lubrication chart, page 13. The crankcase can be drained through the hole indicated in Fig. 21.

Every 2.500 miles:

- (1) - Remove air cleaner cover and unscrew the two filter retainer screws. Extract the filter (n. 3/1 fig. 11) from carburettor, wash in gasoline and if possible air blast dry.
- (2) - Check oil level in the gear box (see above).
- (3) - Grease all joints on the brake controls.
- (4) - Clean the sparkplug electrodes with very fine emery cloth or suitable files, and adjust the gap to 0.6 mm. (0.023").

Inspect the insulation material of sparkplug; replace the latter if the porcelain is cracked. Wash with neat gasoline.

Use the sparkplug type Marelli CW 230 A-T; Marelli CW 225 N-T; Bosch W 225 T 1; Champion L 86; AC 43 F; KLG F 70 or F 75.

Important: using the proper type of sparkplug will eliminate many engine troubles.

- (5) - Grease the felt which lubricates the cam of fly-wheel magneto.
- (6) - Clean the two lubricators on front wheel hub and refill them by means of a grease gun.

N. B. - All operations indicated hereunder should be carried out by a SEARS store.

(7) - Lubricate the speedometer drive pinion and flex drive.

(8) - Clean the muffler and decarbonize the engine as explained hereunder. Remove the muffler, the cooling hood, the cylinder head and the cylinder (see Fig. 20). Decarbonize the piston crown and the cylinder ports from all carbon deposits. Decarbonize the inner side of the cylinder head. Carefully clear the cylinder carbon deposits. Heat the exhaust pipe of the muffler and clean it either by scraping internally with a hooked wire or blowing air through from the other orifice; in both cases the muffler should be held so that the exhaust pipe is turned downwards.

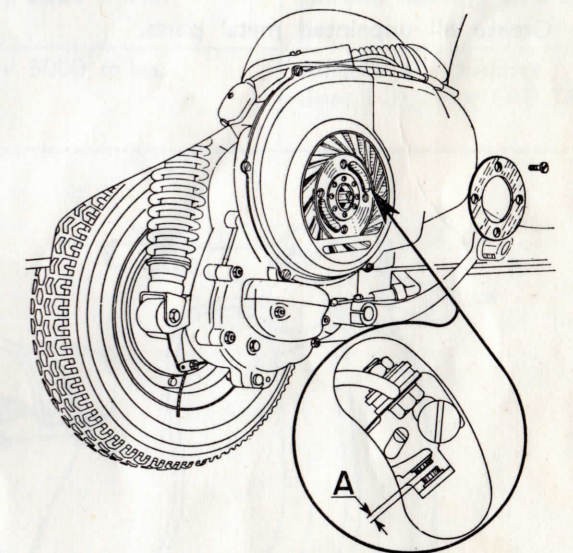


Fig. 19 - Breaker points

A) Max. gap of breaker points « A » should be 0.011"-0.019"

In case of shock-absorber troubles, overhaul or simply clean the assembly and change oil.

These operations should be carried out by your SEARS store.

Every 5.000 miles :

- (1) - Clean the breaker points.
In order to avoid ignition troubles or abnormal running, have the breaker points adjusted in a Sears stores; the gap should not be more than 0.011" - 0.019" (see Fig. 19) and the points should begin to open when the current in the primary ignition circuit has attained its peak value.
- (2) - Grease the control cables.
- (3) - Change the oil in the gear box, as stated on page 13.
- (4) - Grease the ratchet quadrant of the gear shifter.

Disuse :

- (1) - In such a case, cleaning the scooter thoroughly is advisable.
- (2) - With engine not running and with throttle control twistgrip completely rotated, (full throttle opening) pump 40 cc. of **Allstate - Regular Oil SAE 30** or **Allstate Outboard Motor Oil** through hole in the air cleaner cover into the carburettor intake, by means of an oiler. Then operate the kickstarter three of four times.
- (3) - Rest the floorboard on two wooden blocks in order to take the weight off the tyres.
- (4) - Drain all fuel from both tank and carburettor.
- (5) - Grease all unpainted metal parts.

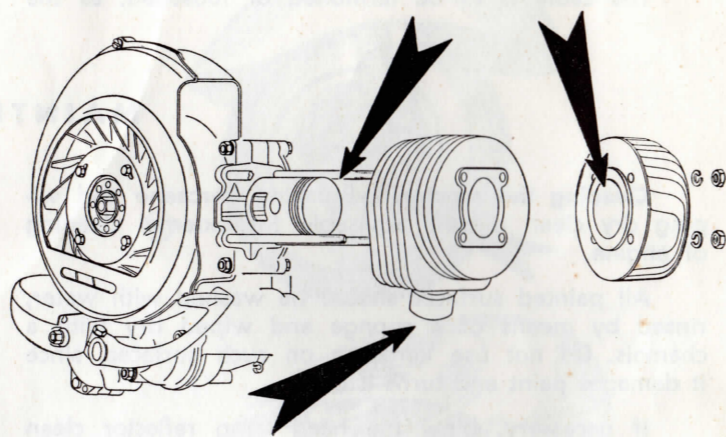


Fig. 20 - Cleaning the cylinder head, cylinder and piston

LUBRICATION CHART

PART TO BE LUBRICATED	OPERATION	TIME	TYPE OF LUBRICANT
Engine	Mix gasoline with the following amount of lubricating oil : — ¼ pint of oil to ½ gallons of gasoline. N. B. - With pre-diluted or additive oils, mix ¼ pint of oil to each gallon of gasoline.	At each refilling of the fuel tank.	Pure mineral oil SAE 30.
Gear Box	Warm up the engine and drain off oil. Pour some fresh oil in and run the engine for a few seconds. Flush and refill with new oil (about 7 oz.). Refill with new oil to oil level hole.	After the first 600 miles and every 5000 miles. Every 5000 miles.	Allstate Regular SAE 30.
Front wheel hub Speedometer flex drive and pinion	Lubricate with grease gun.	Every 2500 miles.	High Pressure Chassis
Joints on brake controls	Grease.	Every 2500 miles.	Allstate all - purpose. Gear Lubricator SAE 140.
Shock-absorber	Change oil.	Only when the shock - absorber is out of order.	Allstate Shock - Absorber Fluid.
Control cables	Clean and lubricate.	Every 5000 miles.	Allstate all - purpose. Gear Lubricator SAE 140.
Felt of flywheel cam	Small spot of grease on the felt.	Every 2500 miles.	Allstate Bearing Grease.
Ratchet quadrant of gear shifter	Grease.	Every 5000 miles.	Allstate all - purpose. Gear Lubricator SAE 140.

ENGINE LUBRICATED BY MIXTURE

**ALLSTATE REGULAR SAE 30
OR ALLSTATE OUTBOARD MOTOR OIL**

**ALLSTATE SHOCK
ABSORBER FLUID**

**ALLSTATE REGULAR
SAE 30**

HIGH PRESSURE CHASSIS GREASE

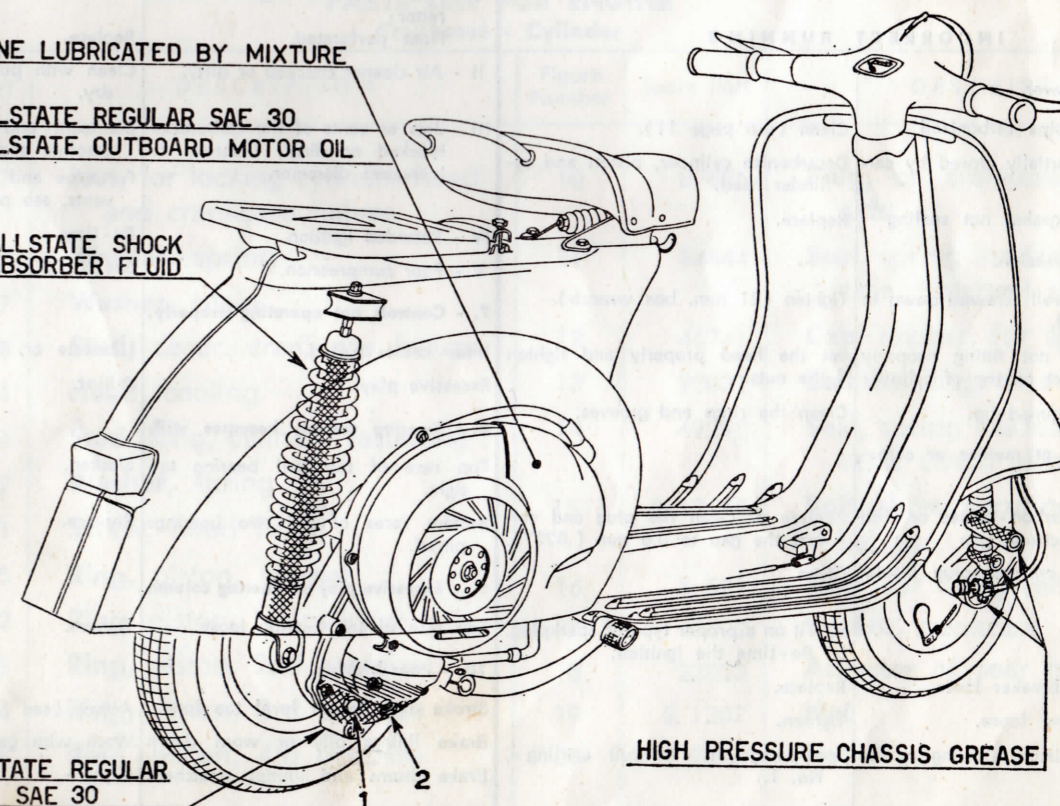


Fig. 21 - Lubrication scheme
1. Filling hole - 2. Draining hole

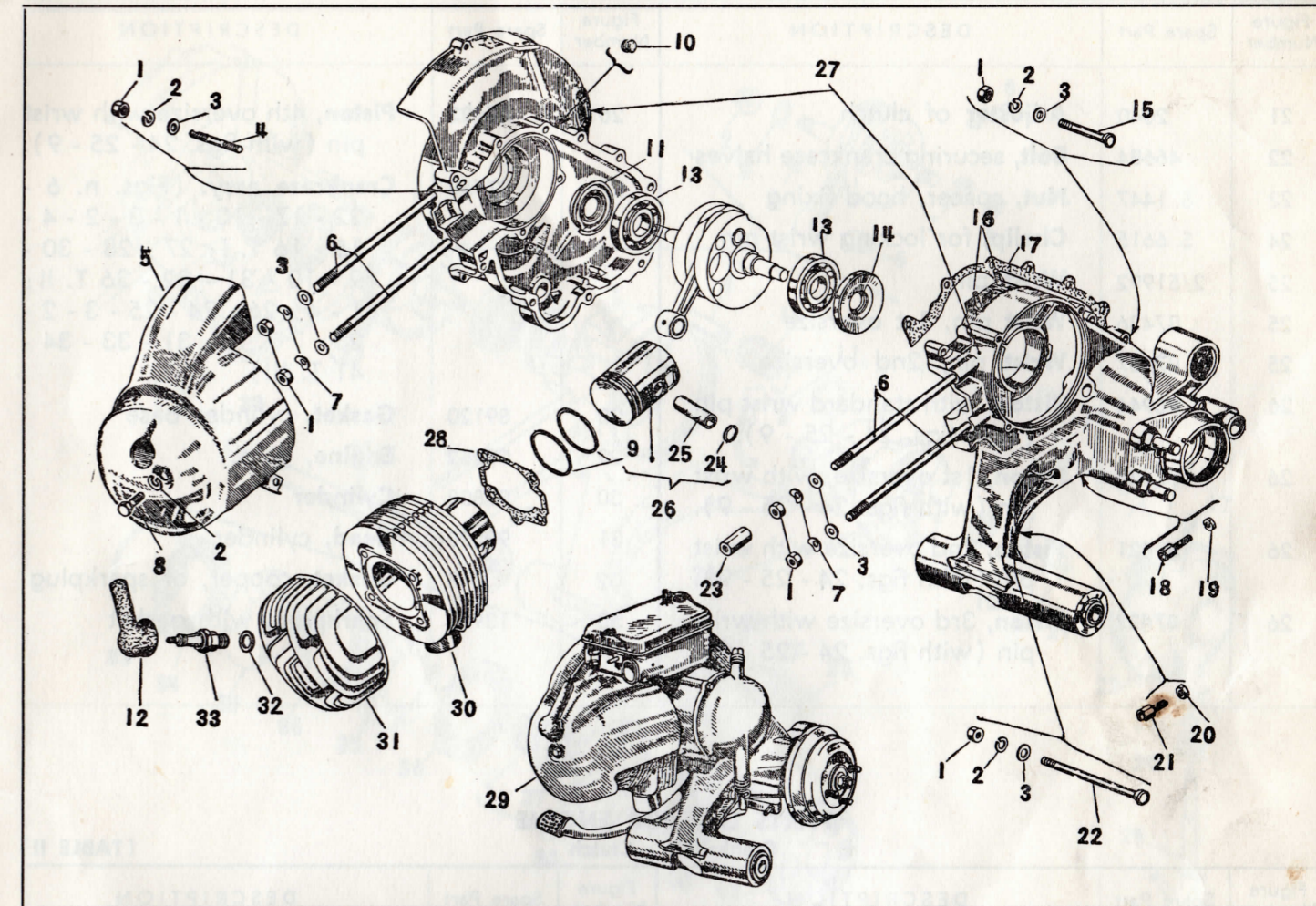
LOCATING TROUBLES AND RUNNING IRREGULARITIES

Carry out following checks when the engine does not start easily or runs irregularly.

Locating the trouble	Remedies	Locating the trouble	Remedies
DIFFICULT STARTING			
1. - Fuel system.			
Fuel tank empty.	Turn to « reserve ». Refill as soon as possible.		
Filter on carburettor Fuel tap body Carburettor body Main jet Atomizer Packing of fuel tap	Clogged, dirty Remove and wash in gasoline - Blow dry.		
2. - Carburation			
Engine flooding	See page 8.		
Float perforated	Replace.		
Air cleaner choked or dirty	Clean (see page 11).		
Starter valve sticking	Release.		
3. - Ignition			
	Disconnect the plug lead. Check if sparking occurs between lead and crankcase when the kickstarter is operated.		
Sparkplug dirty	Clean. Correct gap to 0.6 mm (.023").		
Porcelain of sparkplug cracked	Replace the plug.		
Breaker points dirty, partially worn or pitted.	Clean with suitable files or very fine emery paper.		
Gap between breaker points incorrect.	Correct (see fig. 19).		
Breaker points completely worn or pitted.	Replace.		
Timing wrong.	Re-time ignition.		
INCORRECT RUNNING			
1. - Lack of power.			
Muffler outlet pipe carbonized	Clean (see page 11).		
Exhaust port partially closed by carbon deposit.	Decarbonize cylinder, piston and cylinder head.		
Cylinder base gasket not sealing	Replace.		
2. - Poor compression.			
Sparkplug not well screwed down in cylinder head.	Tighten (21 mm. box wrench).		
Cylinder head not fitting properly into the spigot on top of cylinder	Set the head properly and tighten the nuts.		
Piston rings gummed up.	Clean the rings and grooves.		
3. - Explosions at muffler or carburettor.			
Sparkplug carbon-coated or with excessive electrode gap	Replace or clean the plug and correct the gap to 0.6 mm (.023").		
Carbon pearls on sparkplug insulation.	Clean.		
Pre-ignition.	a) Fit on a proper type of sparkplug. b) Re-time the ignition.		
Tip of contact breaker loose.	Replace.		
Condenser screw loose.	Tighten.		
Not enough mixture flowing to the carburettor.	See paragraph « Difficult starting », No. 1.		
4. - Clutch troubles.			
a) Clutch snatches: Gear pinions not lubricated properly.	Top up oil level. Tighten the screw on draining hole.		
b) Clutch slips: Springs feeble. Plates worn or burnt.	Replace. Replace both plates and springs.		
c) Clutch does not disengage completely: Excessive play on control cable.	Adjust (see fig. 18).		
5. - Gear pinions disengage of own accord.			
Gear change control cables out of adjustment.	Adjust.		
	Should the control have excessive play in neutral, tension control cables by screwing back the respective adjuster screw (on cable sheath end, ratchet quadrant side) with an 8 mm. open ended wrench. If the cable tension in neutral is correct but the reference marks of the handlebars do not tally, tighten one of the adjuster screw and unscrew the other one to the same extent, so that the cable tension is not altered.		
Spring of stirrup broken, feeble or missing.	Replace.		
Selector arms chamfered.	Replace the selector.		
Dogs of gear pinions chipped or worn.	Replace the pinion.		
6. - High fuel consumption.			
I - Fuel level too high in carburettor: Float perforated.	Replace.		
II - Air cleaner choked or dirty.	Clean with pure gasoline and blow dry.		
III - Jets or vents of the carburettor blocked or dirty; incorrect or increased diameter.	Dismount and clean carburettor in gasoline and compressed air. For type and diameter of jets and vents, see page 5.		
IV - Retarded ignition.	Re-time.		
V - Poor compression.	See No. 2 of this paragraph.		
7. - Controls not operating properly.			
Inner cables rusted.	Lubricate or, if necessary, replace.		
Excessive play.	Adjust.		
8. - Steering column becomes stiff.			
Top race of top ball bearing too tight.	Slacken.		
Bottom races of the two bearings pitted.	Replace.		
9. - Excessive play of steering column			
Top race of top bearing loose.	Tighten.		
10. - Poor braking.			
Stroke of pedal or level too long.	Adjust (see Fig. 17).		
Brake linings oily or worn down	Wash with gasoline or replace.		
Brake drums and linings scratched.	Replace.		

PARTS LIST

TABLE I



PARTS LIST FOR ENGINE
Crankcase - Cylinder

(TABLE I)

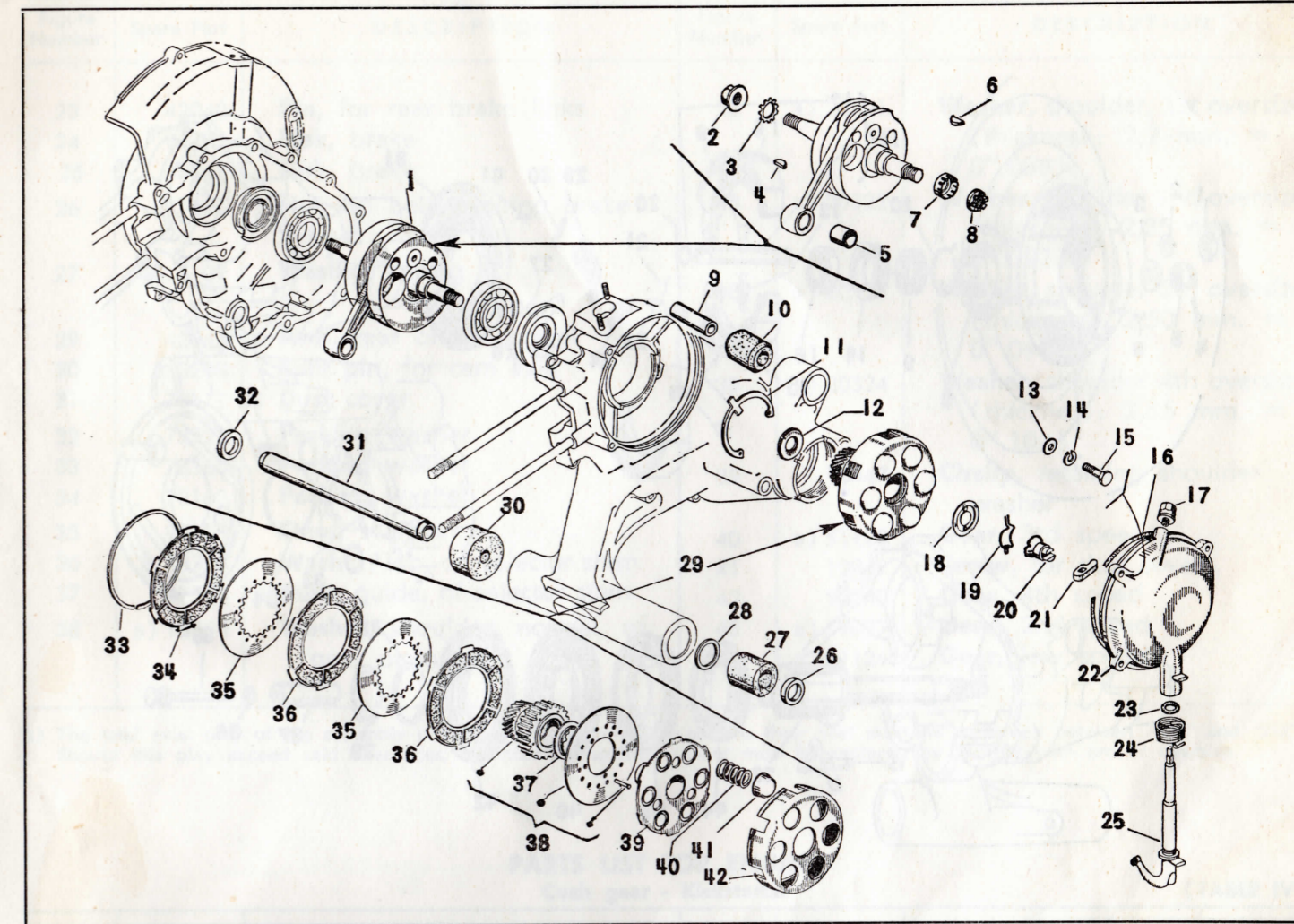
Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	S. 1107	Nut , for locking cylinder head and crankcase halves	10	87685	Plug , on crankcase, flywheel side
2	S. 3107	Washer , spring	11	84644	Seal , spring loaded, for crankcase, flywheel side
3	S. 3057	Washer , plain	12	46741	Cap , rubber, for sparkplug
4	S. 11288	Stud , secur. crankcase halves	13	93031	Ball bearing , of crankshaft
5	2/84831	Hood , cooling	14	49290	Seal , spring loaded, for crankcase, clutch side
6	46261	Stud , long, cylinder fastening	15	S. 12485	Bolt , short, securing crankcase halves
7	S. 6977	Washer , spring	16	S. 521	Stud , for fixing carburettor
8	S. 14441	Screw , hood fixing	17	49502	Gasket , crankcase
9	52575	Ring , piston, normal	18	23823	Adjuster of rear brake
9	87432	Ring , piston, 1st oversize	19	S. 1207	Nut
9	87433	Ring , piston, 2nd oversize	20	2444	Nut
9	87434	Ring , piston, 3rd oversize			
9	87435	Ring , piston, 4th oversize			

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
21	2040	Adjuster of clutch	26	87423	Piston , 4th oversize with wrist pin (with figs. 24 - 25 - 9).
22	46684	Bolt , securing crankcase halves	27	97453	Crankcase assy. (Figs. n. 6 - 22 - 17 - 10 - 1 - 3 - 2 - 4 - 15 - 16 T. I; 27 - 28 - 30 - 9 - 10 - 31 - 32 - 26 T. II; 1 - 4 - 26 - 24 - 25 - 3 - 2 - 23 - 7 T. IV; 31 - 33 - 34 - 41 T. III).
23	S. 1447	Nut , spacer, hood fixing	28	89120	Gasket , cylinder base
24	S. 6615	Circlip , for locking wrist pin	29	99262	Engine , g. a.
25	2/51992	Wrist pin	30	93808	Cylinder
25	87436	Wrist pin , 1st oversize	31	92230	Head , cylinder
25	87437	Wrist pin , 2nd oversize	32	318	Gasket , copper, of sparkplug
26	86944	Piston , with standard wrist pin (with figs. 24 - 25 - 9).	33	13903	Sparkplug , with gasket
26	87420	Piston , 1st oversize, with wrist pin (with figs. 24 - 25 - 9).			
26	87421	Piston , 2nd oversize with wrist pin (with figs. 24 - 25 - 9).			
26	87422	Piston , 3rd oversize with wrist pin (with figs. 24 - 25 - 9).			

PARTS LIST FOR ENGINE
Crankshaft - Clutch

(TABLE II)

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	89267	Crankshaft (with part n. 87442 fig. 5)	12	48834	Washer , shim, of clutch gear
2	S. 12066	Nut , securing flywheel	13	S. 3056	Washer , plain, for securing clutch cover
3	686	Washer , shake proof, for nut securing flywheel	14	S. 3106	Washer , spring
4	267	Key , woodruff, for crankshaft (flywheel side)	15	S. 14413	Screw , securing clutch cover
5	87442	Bronze bush of con. rod small end	16	17781	Gasket , between clutch cover and crankcase
6	97	Key , woodruff, for crankshaft (clutch side).	17	19301	Breather , with inserts
7	22313	Washer spring , for castle nut securing clutch	18	16821	Plate , clutch centralizing
8	20375	Nut , castle, for securing clutch	19	14457	Spring , for fixing clutch centralizing plate
9	94727	Spindle , hollow, for hydraulic shockabsorber	20	89858	Thruster , clutch
10	40316	Bush , bottom, rubber, of shock-absorber	21	83806	Lever , inner, clutch
11	46266	Circlip , locking spacer	22	50100	Cover , clutch, with inserts
			23	S. 6708	Packing , between clutch cover and outer lever
			24	46740	Spring , return, of outer clutch control lever

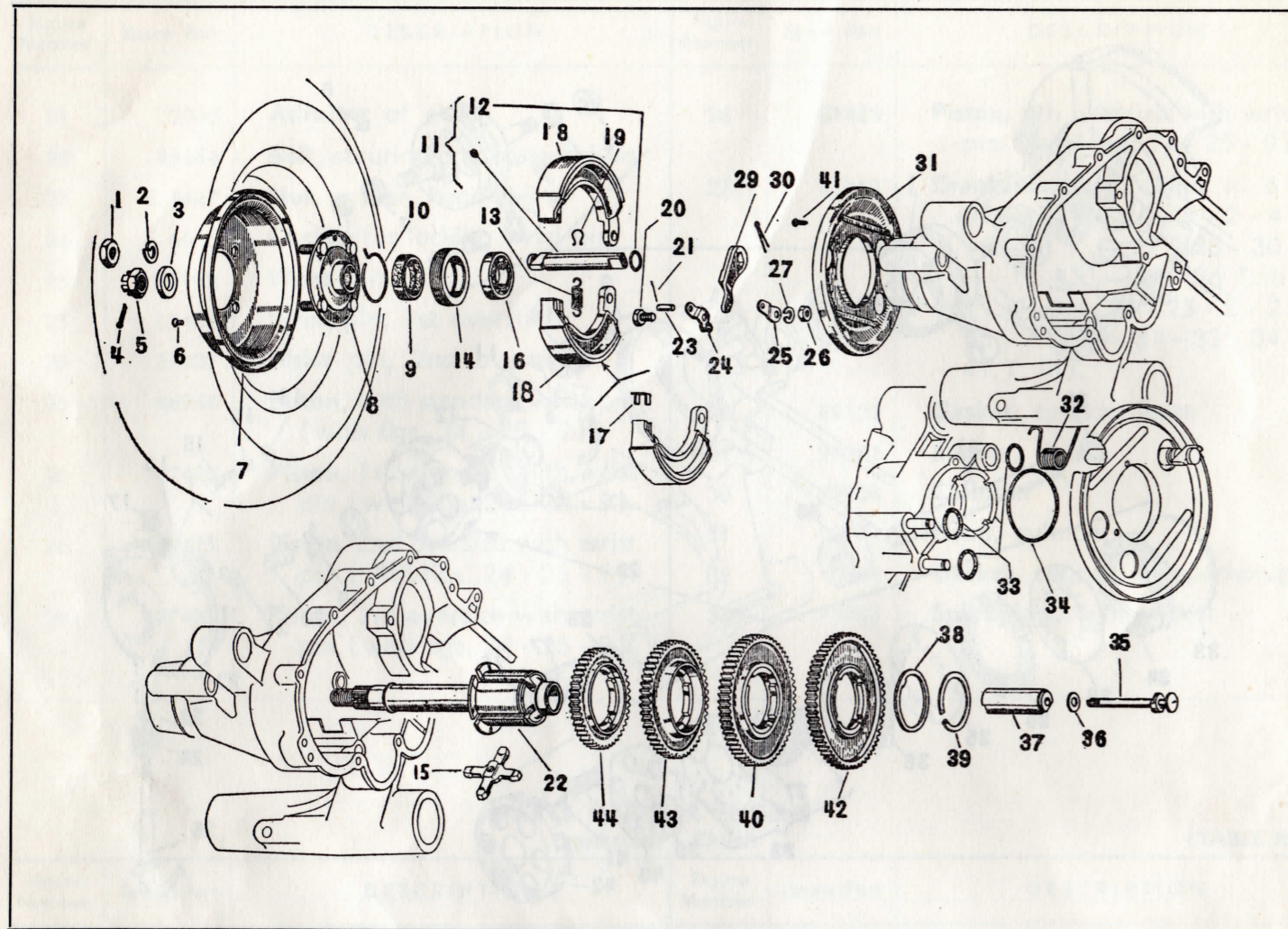


Parts list of engine — Crankcase - Clutch - Continued.

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
25	97984	Lever , outer, clutch	33	32005	Ring , elastic, for stopping clutch plates
26	a) 47946	Spacer , clutch side	34	94780	Driving disc , external, of clutch
27	59588	Bush , rubber, clutch side	35	94425	Plate , smooth, of clutch
28	59590	Washer , plain	36	94743	Plate , clutch, with linings
29	98028	Clutch , g. a. (Figs. n. 41 - 40 - 33 - 42 - 37 - 39 - 38 - 35 - 34 - 36).	37	59109	Washer , spacer
30	59589	Bush , rubber, flywheel side	38	94380	Gear , clutch
31	47944	Spindle , hollow, for engine suspension	39	94379	Plate , spring, of clutch
32	47945	Spacer , flywheel side	40	22821	Spring , clutch
			41	21868	Cup , clutch spring
			42	59369	Body , clutch

a) Parts 48988 or 48989 can be assembled instead of spacer 47946, to attain an axial force in the bush 59588 to give 0 ÷ 1,5 mm. (0 ÷ .06") compression.

TABLE III



PARTS LIST FOR ENGINE
Gear box - Rear wheel flange

(TABLE III)

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	S. 12131	Nut , for securing wheel	10	46700	Circlip
2	S. 3111	Washer , spring, for nut securing wheel	11	97181	Axle , cam, of rear brake with packing (fig. 12).
3	87714	Washer , plain, for nut securing wheel flange	12	S. 6714	Packing
4	S. 12787	Split pin , for locking castle nut	13	78522	Spring , return, of brake jaws
5	S. 2314	Nut , castle, for securing wheel flange	14	46688	Ring , locking ball bearing
6	2021	Screw , for joining brake drum to flange	15	17821	Selector , gear
7	23831	Drum , rear brake	16	7563	Ball bearing of mainshaft
8	94535	Flange , female spline, with (fig. 1)	17	7886	Pad
9	46699	Seal , spring-loaded of mainshaft	18	78170	Jaw , rear brake, with lining
			19	61	Clip , spring, for brake jaws
			20	85673	Bolt , for securing cable to brake links
			21	S. 3204	Split pin , on pin for brake links
			22	a) 82085	Mainshaft

a) The total axial play of the assembly of the 4 gear pinions in respect to their seat must be contained between .006" and .012". Should this play exceed said tolerances, the normal shoulder washer must be replaced by another with proper oversize.

Parts list for engine - Gear box - Rear wheel flange - Continued.

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
23	42048	Pin , for rear brake links	38	a) 20321	Washer , shoulder, 1st oversize (thickness: 2,2 mm. = 0".086)
24	94779	Link , brake	38	a) 20322	Washer , shoulder 2nd oversize (thickness: 2,35 mm. = 0".092)
25	42047	Link , brake	38	a) 20323	Washer , shoulder 3rd oversize (thickness: 2,50 mm. = 0".098)
26	S. 1426	Nut , on bolt securing brake links	38	a) 20324	Washer , shoulder 4th oversize (thickness: 2,65 mm. = 0".104)
27	S. 3109	Washer , spring	39	18447	Circlip , retaining shoulder washer
29	42043	Arm , rear brake control	40	a) 51123	Gear , 3rd speed
30	S. 3208	Split pin , for cam axle	41	12869	Screw , for dust cover
31	78171	Dust cover	42	92240	Gear , 4th speed
32	78521	Packing washer	43	a) 59007	Gear , 2nd speed
33	78164	Packing washer	44	a) 51124	Gear , low speed
34	78163	Packing washer			
35	92098	Stem , selector			
36	S. 13768	Washer , tab, on selector stem			
37	47190	Bush , guide, of selector stem			
38	a) 18558	Washer , shoulder, normal, of gear pinions			

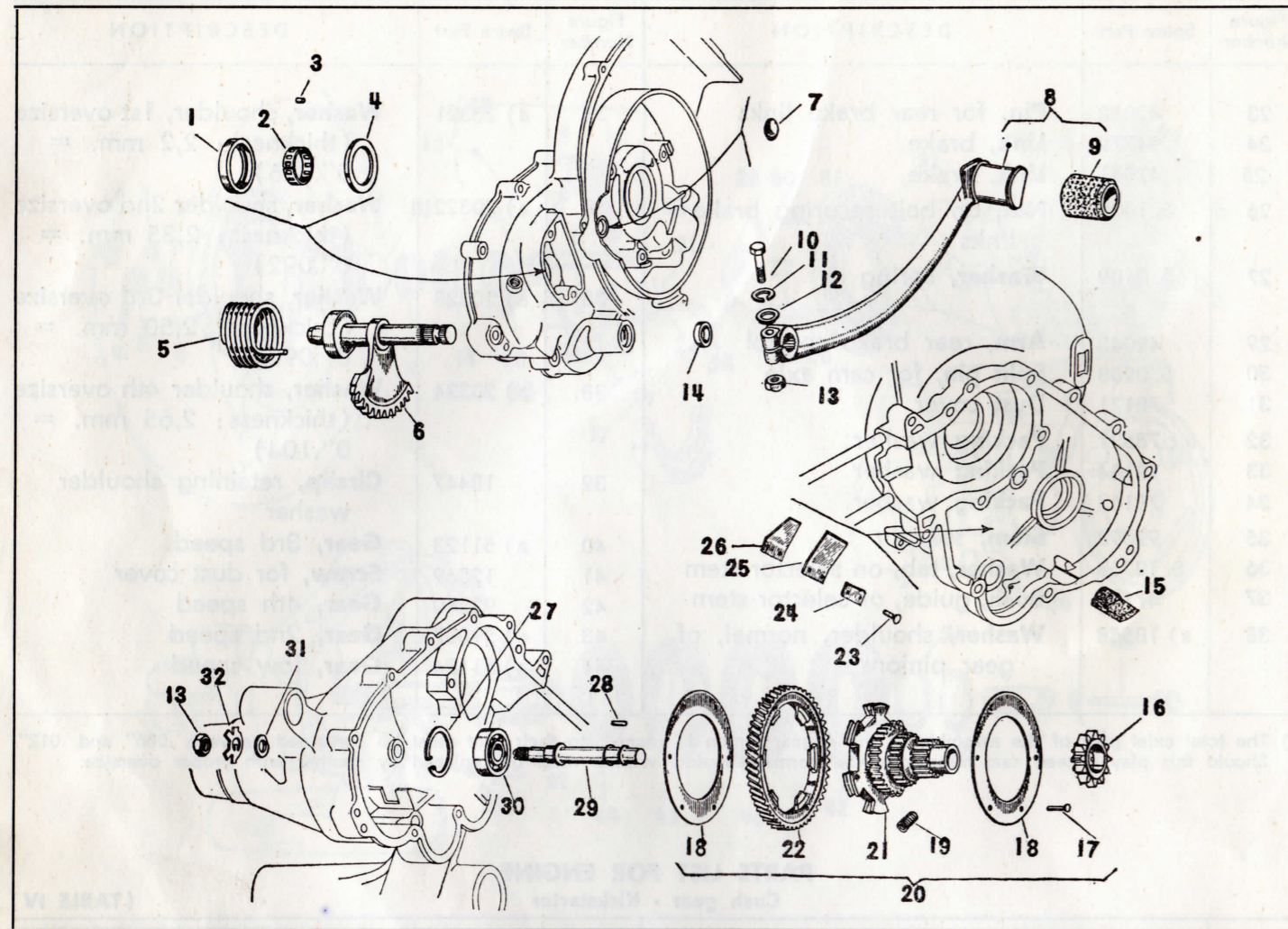
a) The total axial play of the assembly of the 4 gear pinion in respect to their seat must be contained between .006" and .012". Should this play exceed said tolerances, the normal shoulder washer must be replaced by another with proper oversize.

PARTS LIST FOR ENGINE
Cush gear - Kickstarter

(TABLE IV)

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	47160	Race , roller bearing of mainshaft	18	89913	Washer , plate, of cush drive springs
2	82086	Cage , roller bearing	19	17887	Spring , of cush drive
3	81842	Roller	20	92074	Drive , cushion, g. a. (Figs. n. 19 - 21 - 22 - 18 - 17)
4	47161	Washer , shoulder, roller bearing	21	2/58677	Gear , multiple
5	47218	Spring , return, of kickstarter	22	89911	Gear , outer, of cush drive
6	77413	Sector , starting	23	S. 10790	Rivet , for securing blades
7	46631	Plug	24	48002	Pad , blades
8	97338	Kickstarter g. a. (Figs. n. 9 - 10 - 11 - 12 - 13)	25	54071	Blade , long, for starting sector
9	49642	Rubber sleeve	26	48000	Blade , short, for starting sector
10	S. 8507	Bolt , securing kickstarter	27	S. 6637	Circlip , for locking multiple gear ball bearing
11	S. 3109	Washer , spring	28	2457	Roller , for multiple gear
12	S. 3060	Washer , plain, of kickstarter	29	94417	Layshaft
13	S. 1109	Nut	30	32494	Ball bearing , of multiple gear
14	S. 6721	Packing	31	S. 13940	Washer , plain, for nut securing layshaft
15	46742	Buffer , for starting sector	32	58560	Washer , spring, for nut securing layshaft
16	58680	Gear , starting			
17	S. 10776	Rivet , for sec. plate washer			

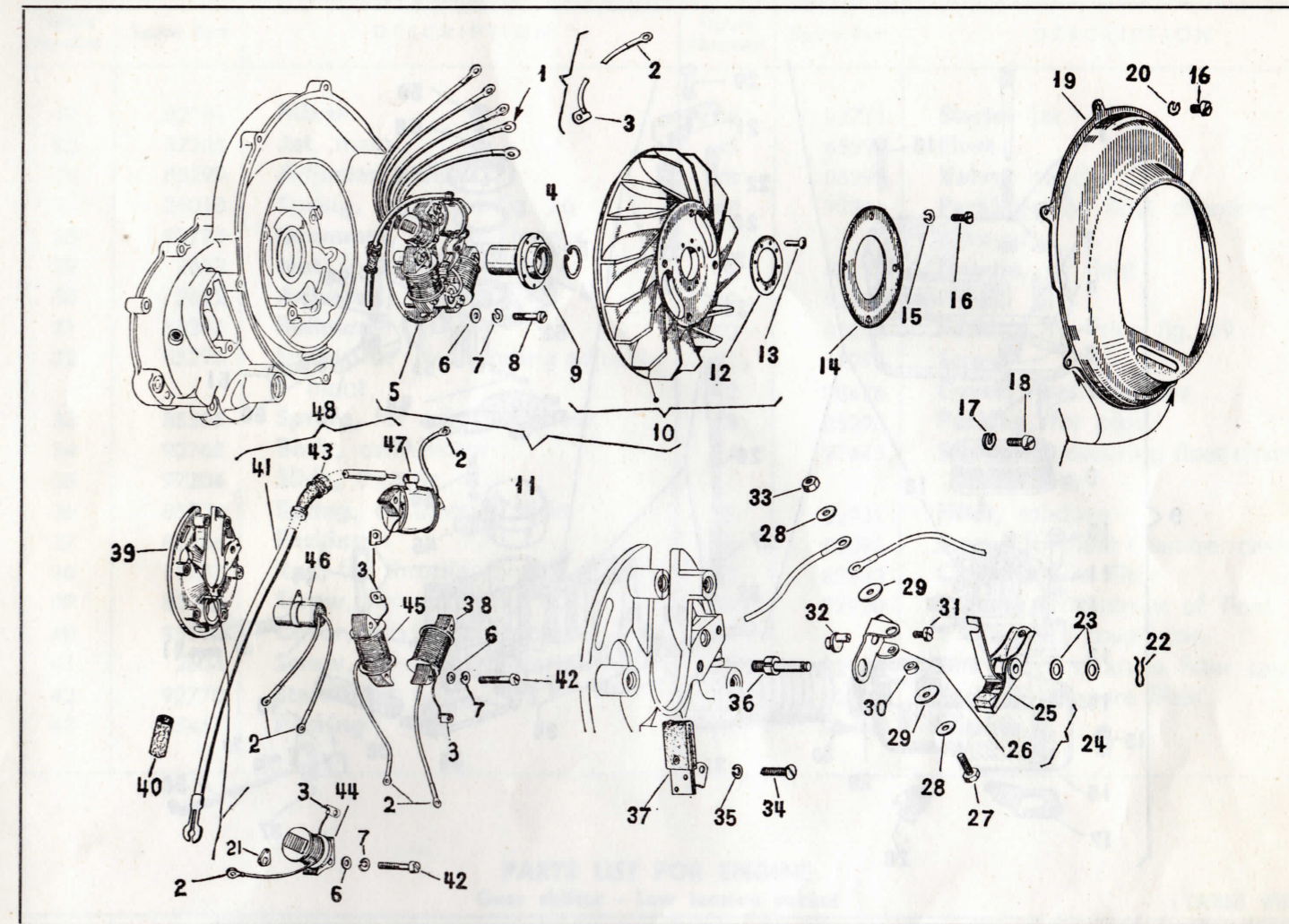
TABLE IV

PARTS LIST FOR ENGINE
Flywheel Magneto - Fan

(TABLE V)

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	46764	Cable , earth, with terminal	11	97189	Flywheel , magneto g. a. (Figs. n. 5 - 10)
2	14501	Terminal	12	6562	Washer , plain, of cam
3	662	Terminal	13	S. 10775	Rivet , for securing cam
4	674	Circlip , for flywheel extraction	14	78070	Dust cover
5	87594	Stator , g. a. (Figs. n. 42 - 23 - 33 - 22 - 34 - 36 - 24 - 30 - 32 - 37 - 46 - 1 - 38 - 39 - 45 - 21 - 44 - 47 - 6 - 35 - 7 - 27 - 31 - 28 - 29).	15	S. 12533	Washer , spring
6	S. 3055	Washer , plain, for screws securing stator and coils	16	2946	Screw , short, for securing fan casing cover and dust cover
7	S. 3105	Washer , spring, for screw securing stator	17	S. 3056	Washer , spring
8	S. 10047	Screw , for securing stator	18	2856	Screw , long, for securing fan casing cover
9	46675	Cam	19	47577	Cover , fan casing
10	97191	Flywheel fan (Figs. n. 16 - 12 - 9 - 14 - 13 - 15)	20	S. 3106	Washer , spring
			21	83408	Pad , securing low tension coil No. 3
			22	625	Fork spring
			23	622	Washer , shim, of breaker

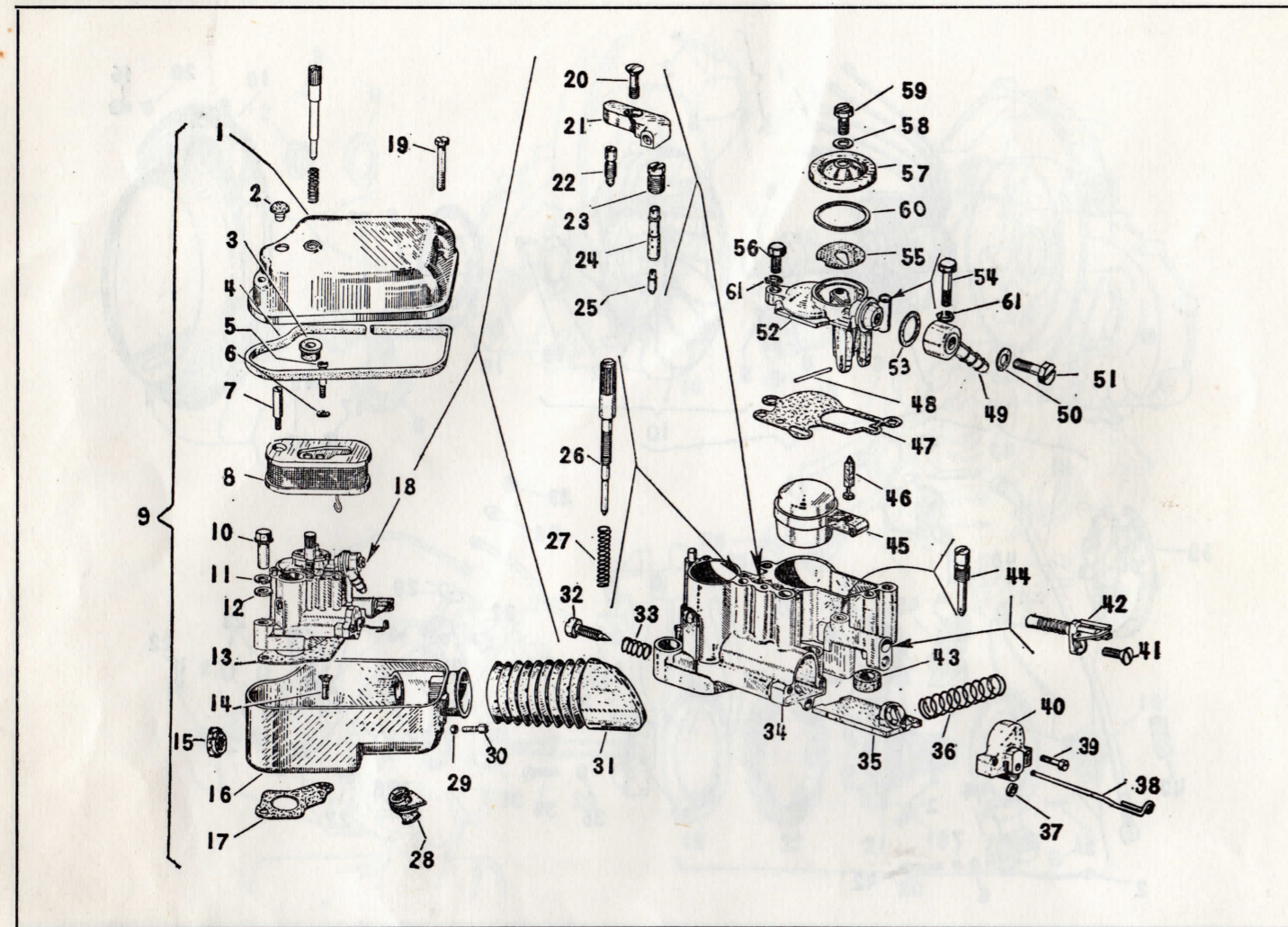
TABLE V



Parts list for engine — Flywheel Magneto - Fan - Continued.

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
24	97478	Gusset - breaker assy (Figs. n. 25 - 26)	37	16421	Blade felt , with inserts
25	94357	Breaker with platinum point	38	83386	Coil , low tension, No. 1
26	16418	Gusset , contact	39	83125	Stator
27	S. 12331	Bolt , retaining coil terminals, condenser and breaker blade	40	84737	Tube , for part 86475 (Fig. 41)
28	S. 13800	Washer , plain	41	86475	Lead , plug, with inserts
29	S. 13801	Washer , insulating	42	603	Screw , for securing coils
30	16419	Ring , insulating	43	46766	Grommet
31	S. 12332	Screw , securing blade with cam greasing felt	44	83545	Coil , low tension, No. 3
32	16420	Cam	45	83387	Coil , low tension, No. 2
33	624	Nut	46	46750	Condenser
34	3213	Screw , securing condenser and felt blade	47	86482	Coil , H. T.
35	S. 3103	Washer , spring for felt blade	48	86483	Coil , ignition, g. a. (Figs. n. 41 - 43 - 47).
36	16717	Axle , breaker			

TABLE VI



PARTS LIST FOR ENGINE
Carburettor - Air Cleaner

(TABLE VI)

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	87856	Cover, air cleaner, with plug (fig. 2)	15	50274	Plug
2	87975	Plug, on air cleaner	16	59708	Air cleaner, body
3	58364	Packing	17	94245	Joint
4	84797	Packing, air cleaner	18	92181	Carburettor, Dell'Orto SI 20/15 C - Type g. a. (Figs. n. 41 - 56 - 27 - 58 - 55 - 60 - 57 - 59 - 33 - 37 - 50 - 46 - 48 - 40 - 45 - 51 - 49 - 53 - 32 - 26 - 35 - 36 - 20 - 38 - 39 - 43 - 22 - 25 - 23 - 24 - 44 - 52 - 47 - 54 - 34 - 42 - 21 - 61)
5	S. 14436	Screw, for air cleaner body	19	S. 14583	Screw, for air cleaner
6	S. 3105	Washer, spring	20	85306	Screw, for cover of jets
7	S. 10074	Screw, for air cleaner body	21	92772	Cover, for jets
8	59710	Air filter	22	85795	Jet, idling
9	92263	Air cleaner, g. a. (Figs. n. 15 - 3 - 16 - 8 - 4 - 1 - 6 - 7 - 5 - 19)	23	89188	Air hole on mixer top
10	49542	Screw, for securing carburettor			
11	S. 3109	Washer, spring			
12	S. 13762	Washer, plain			
13	94244	Gasket, for carburettor			
14	S. 14540	Screw, for air cleaner body			

Parts list for engine — Carburettor - Air Cleaner - Continued.

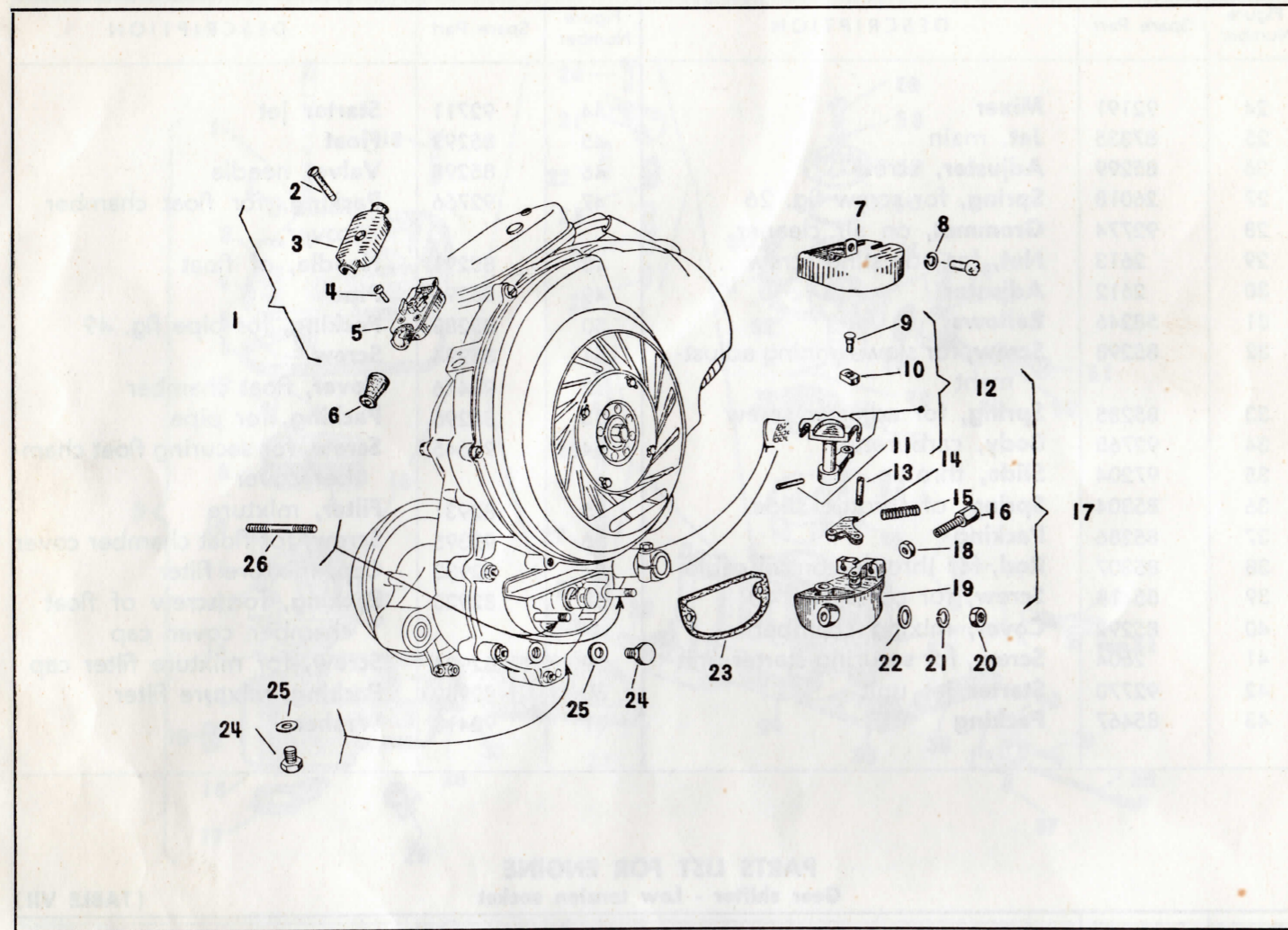
Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
24	92191	Mixer	44	92711	Starter jet
25	87335	Jet, main	45	85293	Float
26	85299	Adjuster, screw	46	85290	Valve, needle
27	26018	Spring, for screw fig. 26	47	92766	Packing, for float chamber cover
28	92774	Grommet, on air cleaner	48	85291	Needle, of float
29	2613	Nut, for adjusting screw	49	85295	Pipe
30	2612	Adjuster	50	85288	Packing, for pipe fig. 49
31	58246	Bellows	51	85294	Screw
32	85298	Screw, for slow running adjustment	52	98476	Cover, float chamber
33	85285	Spring, for adjuster screw	53	85296	Packing, for pipe
34	92768	Body, carburettor	54	97645	Screw, for securing float chamber cover
35	97204	Slide, throttle	55	82931	Filter, mixture
36	85304	Spring, of throttle slide	56	92395	Screw, for float chamber cover
37	85286	Packing	57	82933	Cap, mixture filter
38	85307	Rod, for throttle control cable	58	82920	Packing, for screw of float chamber cover cap
39	85418	Screw, for cover fig. 40	59	82934	Screw, for mixture filter cap
40	85292	Cover, mixing chamber	60	82932	Packing, mixture filter
41	2604	Screw, for securing starter unit	61	92410	Washer
42	92770	Starter jet unit			
43	85467	Packing			

PARTS LIST FOR ENGINE
Gear shifter - Low tension socket

(TABLE VII)

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	48185	Terminal, low tension g. a. (Figs. n. 5 - 3 - 2 - 4)	15	59410	Spring, of roller carrying stirrup
2	S. 8230	Screw, for locking L. T. terminal	16	2040	Adjuster
3	48168	Cover, low tension terminal	17	92167	Support g. a. (Figs. n. 18 - 16 - 15 - 19 - 14 - 13 - 12)
4	S. 14402	Screw, on low tension socket	18	2444	Nut
5	48167	Socket, low tension, for earth and lighting cables	19	92166	Support, gear shifter
6	48170	Cap, for low tension socket	20	S. 1107	Nut
7	59465	Cover, support gear shifter	21	S. 3107	Washer, spring, for gear shifter support
8	S. 3106	Washer, spring, for support cover	22	S. 3057	Washer, plain
9	46612	Pivot, of gear shifting skid	23	47162	Gasket, between support and crankcase
10	46613	Skid, gear shifting	24	2990	Cap, oil filling
11	S. 13010	Pin, taper	25	397	Packing, oil filling and draining holes
12	2/92099	Quadrant, ratchet with skid, pivot and pin (Figs. n. 9 - 10 - 11)	26	S. 11288	Stud, securing gear shifter support
13	59407	Pin, for roller stirrup			
14	59408	Stirrup, roller carrying, of gear shifter			

TABLE VII

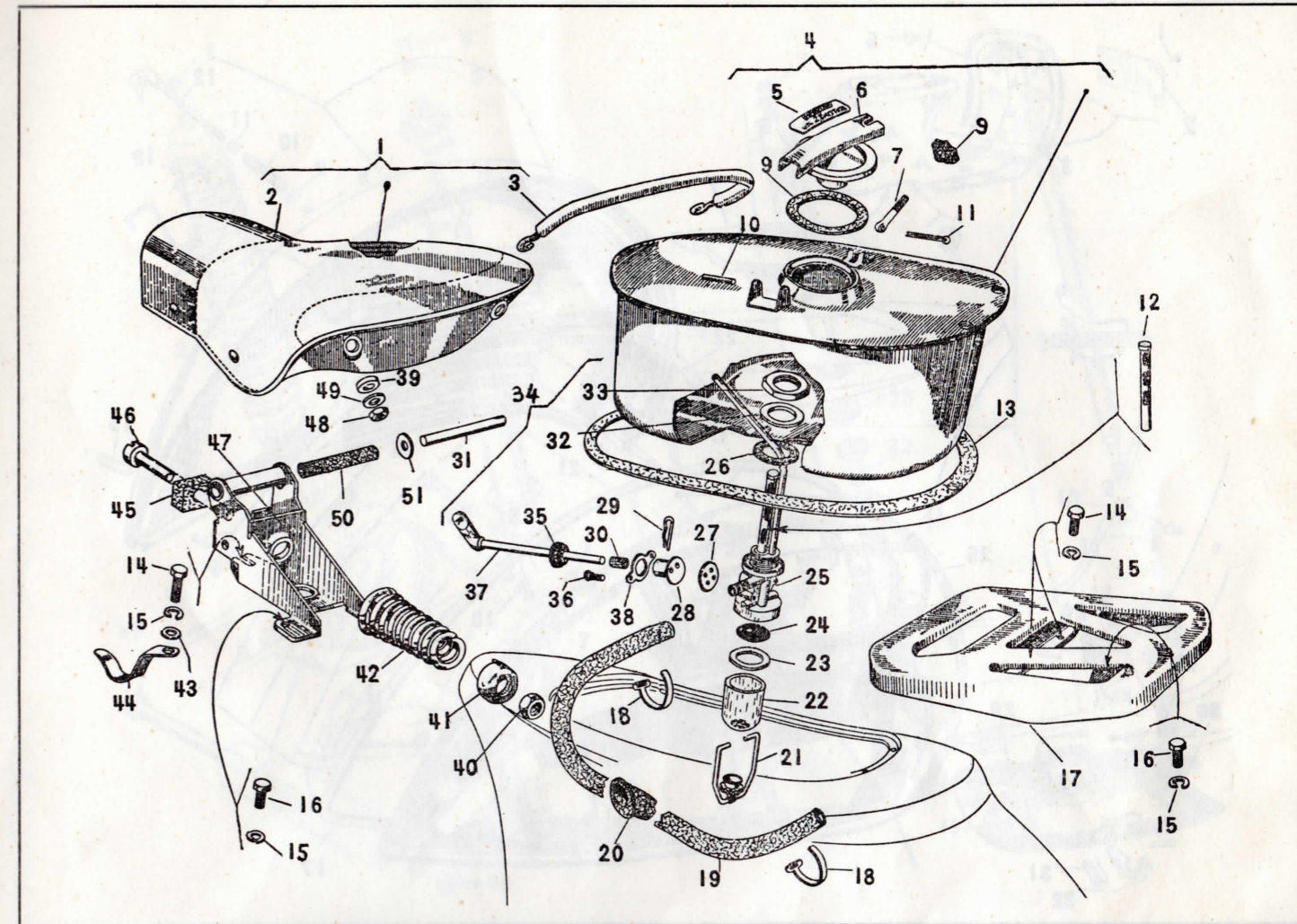


PARTS LIST FOR CHASSIS
Saddle - Fuel tank - Luggage carrier

(TABLE VIII)

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	87802	Saddle, g. a. (Figs. n. 49 - 41 - 39 - 46 - 45 - 42 - 3 - 47 - 31 - 50 - 51 - 2 - 48 - 40)	12	82994	Filter, mixture
2	97341	Cover, saddle	13	94147	Packing, between chassis and fuel tank
3	84424	Grip, on saddle	14	2398	Screw, securing saddle
4	97232	Tank, fuel, with filling cap (Figs. n. 9 - 10 - 7 - 6 - 8 - 5 - 11)	15	S. 3107	Washer, spring, for securing carrier and fuel tank
5	85247	Transfer, indicating gas - oil ratio of fuel	16	S. 14441	Screw, securing carrier and fuel tank
6	16724	Cap, filler, of fuel tank, with inserts	17	83995	Carrier, package
7	4435	Screw, tie, of filler cap	18	3221	Strap, pipe fastening
8	84222	Nut, wing, for filler cap	19	87467	Pipe, plastic, from fuel tap to carburettor
9	2319	Packing, of filler cap	20	84262	Grommet
10	4433	Pivot	21	9641	Sediment bowl tie - rod
11	S. 3212	Split pin for supporting tie screw	22	9640	Sediment bowl
			23	26042	Packing
			24	26041	Filter

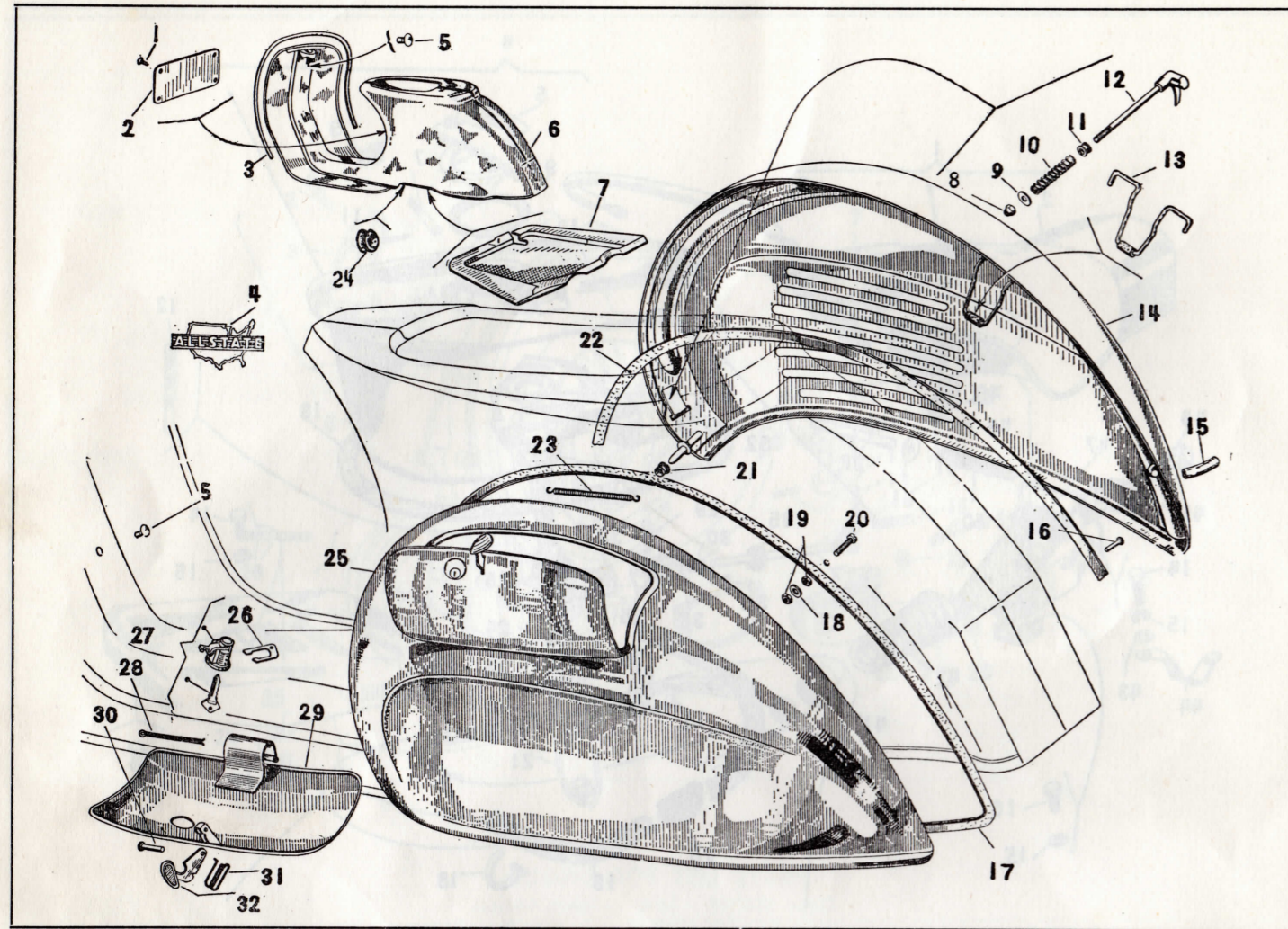
TABLE VIII



Parts list for chassis — Saddle - Fuel tank - Luggage carrier - Continued.

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
25	87910	Body, tap	37	84224	Rod, tap fuel
26	S. 6068	Packing, between fuel tap and tank	38	13835	Flange, tap fuel
27	13836	Packing, tap fuel	39	25858	Spacer
28	46168	Cover, mixture distributor	40	S. 1110	Nut, saddle spring
29	15467	Clip	41	25854	Cup, saddle spring
30	83139	Hose, for tap fuel rod	42	48973	Spring, conical, of saddle
31	84474	Pin, saddle bracket	43	S. 3057	Washer, plain
32	S. 6067	Washer, plain, under nut securing fuel tap	44	48303	Hook, purse hanging
33	9433	Nut, securing fuel tap to tank	45	48459	Buffer, saddle
34	87356	Tap, fuel g. a. (Figs. n. 33 - 22 - 21 - 38 - 27 - 29 - 24 - 23 - 28 - 12 - 30 - 37 - 25 - 32 - 26 - 36)	46	48201	Bolt, securing saddle spring
35	47460	Grommet, rod fuel tap	47	97242	Bracket, saddle, with inserts
36	S. 10011	Screw, fuel tap clip	48	S. 1108	Nut, securing grip
			49	2383	Washer, plain, for grip attachment
			50	84475	Plastic, tube
			51	84476	Shoulder washer

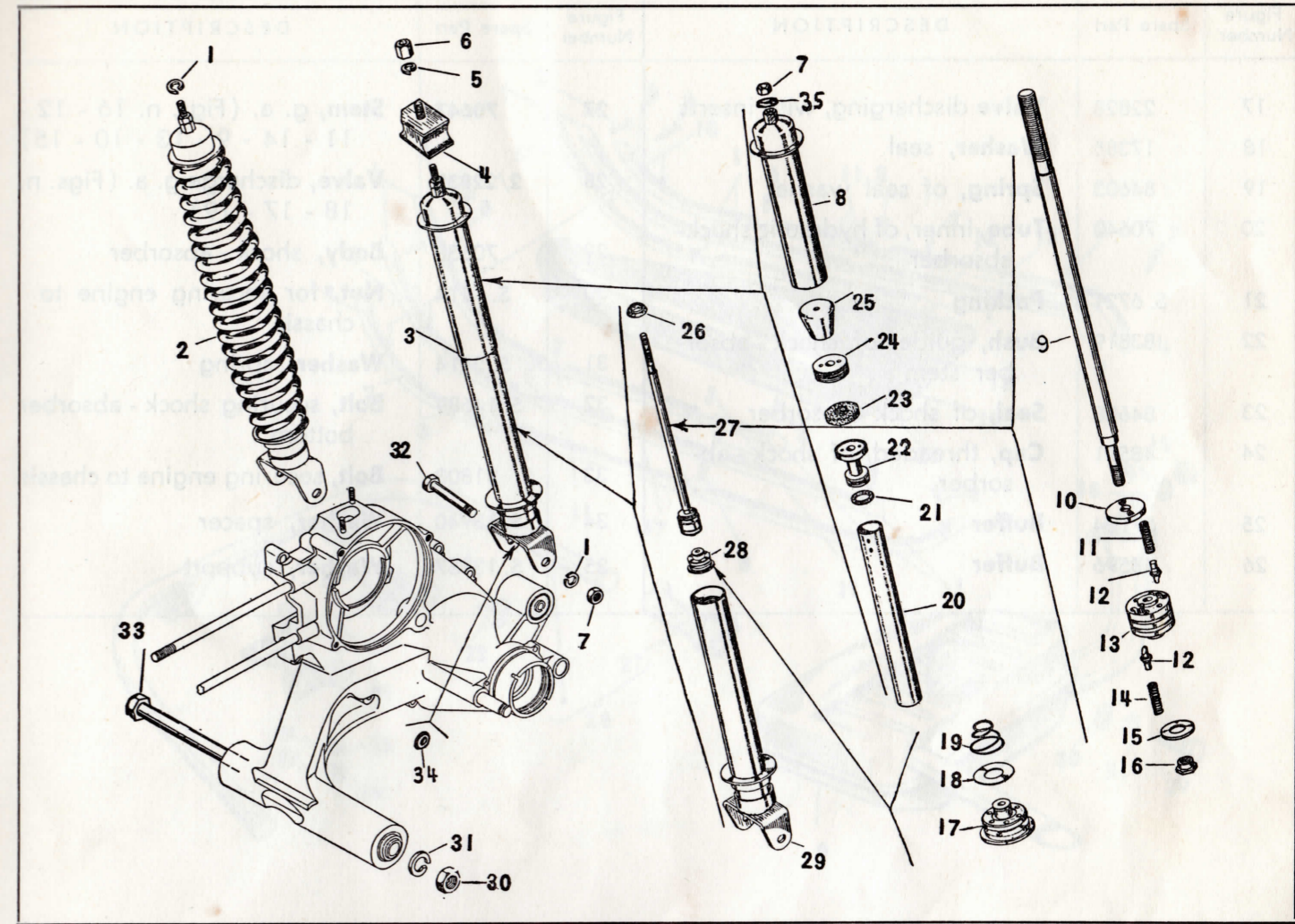
TABLE IX



PARTS LIST FOR CHASSIS
Chassis - Tool Box - Engine bonnet

(TABLE IX)		PARTS LIST FOR CHASSIS			
Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	S. 10781	Rivet , for securing number -	17	82334	Beading , rubber, for tool box
2	99263	Plate , model number	18	S. 13793	Washer , plain
3	84930	Beading , windshield	19	S. 1004	Nut , for bolt securing tool box
4	92017	Plate , name « Allstate »	20	S. 12273	Bolt , for securing tool box
5	83666	Plug	21	84788	Bush
6	99264	Chassis of motor-scooter (Figs. n. 4 - 2 - 1)	22	82333	Beading , rubber, for bonnet
7	87019	Plate	23	12218	Spring , for canvas roll
8	S. 12112	Nut , self - locking	24	70286	Grommet , on chassis
9	60201	Washer , plain	25	86730	Tool box , g. a. (with figs. n. 28 - 30 - 29 - 32 - 31)
10	83115	Spring , grip	26	84633	Locking clip
11	83111	Grommet , grip	27	86732	Security lock , tool box cowl (with figs. 26).
12	83113	Grip	28	2944	Split pin , of tool box shutter
13	85457	Hook	29	50258	Shutter , tool box, with inserts
14	82906	Bonnet , engine (with figs. n. 15 - 13)	30	S. 10856	Pin , for lock lever
15	24041	Buffer , bonnet	31	51633	Spring , of tool box shutter
16	S. 10762	Rivet , for fixing rubber bead.	32	50262	Lever , lock, of tool box shutter

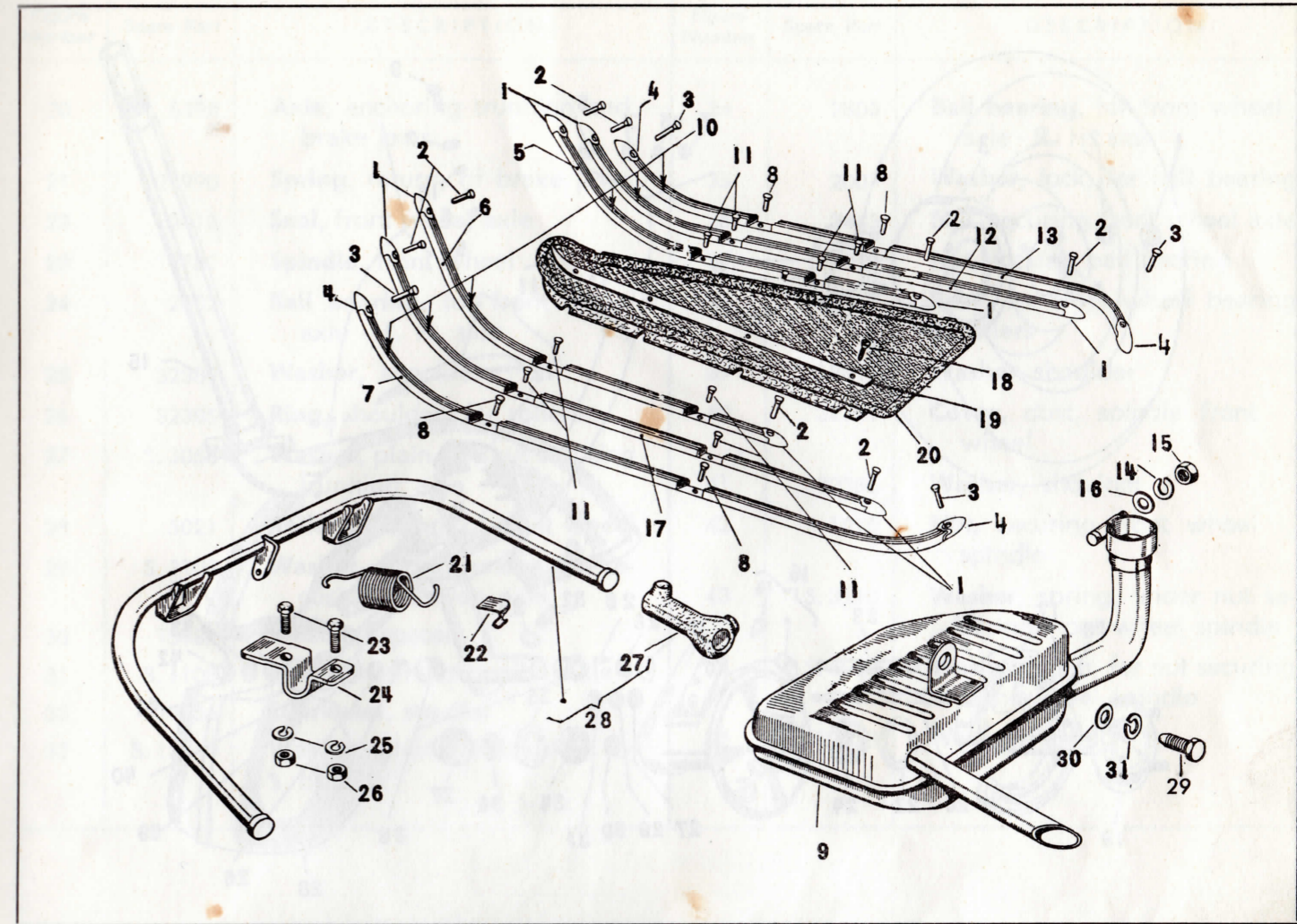
TABLE X



PARTS LIST FOR CHASSIS
Rear suspension spring - Rear damper

(TABLE X)		PARTS LIST FOR CHASSIS			
Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	S. 3109	Washer , spring, for shock absorber anchoring pin	8	70635	Tube , protection, of shock-absorber
2	70646	Spring , rear suspension	9	70641	Stem of shock - absorber
3	70658	Shock - absorber , hydraulic, rear, g. a. (Figs. n. 28 - 29 - 24 - 8 - 25 - 26 - 20 - 22 - 23 - 27 - 7 - 21 - 35)	10	S. 6018	Washer , support, spring
4	60536	Bracket , elastic	11	22827	Spring , for valve pin
5	S. 3108	Washer , spring	12	17285	Pin , valve
6	S. 12109	Nut , securing bracket to frame	13	93468	Piston , of shock - absorber
7	70634	Nut , spacer, of shock-absorber	14	32812	Spring , for valve pin
			15	S. 13768	Washer , support, spring
			16	17122	Ring , lock, of piston

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
17	22828	Valve discharging, with inserts	27	70647	Stem , g. a. (Figs. n. 16 - 12 - 11 - 14 - 9 - 13 - 10 - 15)
18	17385	Washer , seal	28	2/22832	Valve , discharge g. a. (Figs. n. 18 - 17 - 19)
19	84603	Spring , of seal washer	29	70638	Body , shock - absorber
20	70640	Tube , inner, of hydraulic shock-absorber	30	S. 1214	Nut , for securing engine to chassis
21	S. 6721	Packing	31	S. 3114	Washer , spring
22	83819	Bush , guide, of shock - absorber stem	32	S. 14689	Bolt , securing shock - absorber bottom
23	84608	Seal , of shock - absorber	33	81803	Bolt , securing engine to chassis
24	48591	Cap , threaded, of shock - absorber	34	S. 13940	Washer , spacer
25	57104	Buffer	35	S. 13957	Washer , support
26	48596	Buffer			



(TABLE XI) PARTS LIST FOR CHASSIS Channels - Center stand - Silencer

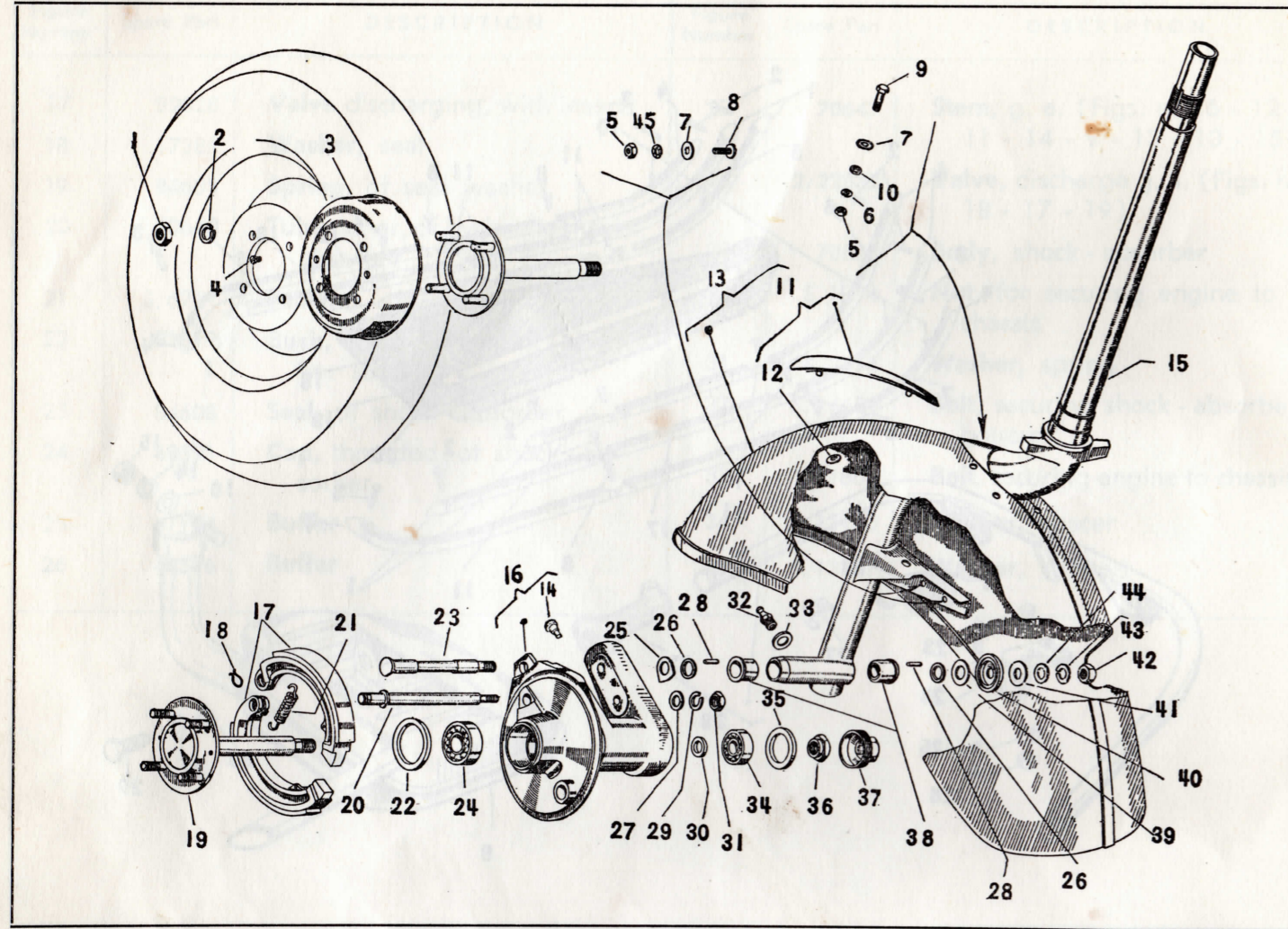
Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	81098	Cap , strip	9	81925	Muffler , with figs. n. 15 - 16 - 14)
2	S. 10869	Rivet , securing outer strips cap of floorboard	10	a) 47243	Strip , rubber, of floorboard
3	S. 10868	Rivet , securing inner strips cap of floorboard	11	S. 10805	Rivet , securing inner strip of floorboard
4	89156	Cap , strip	12	93207	Channel , R. H. (inner)
5	93209	Strip , short, of floorboard, R. H.	13	93211	Channel , R. H. (outer)
6	93210	Strip , short, of floorboard, L. H.	14	S. 3107	Washer , spring, for securing muffler to cylinder
7	93212	Channel , L. H. (outer)	15	S. 1107	Nut , for securing muffler to cylinder
8	3907	Rivet , securing outer strips of floorboard			

a) Order by meters or feet.

Parts list for chassis — Channels - Center stand - Silencer - Continued.

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
16	S. 3057	Washer , plain	25	S. 3106	Washer , spring, for center stand attachment
17	93208	Channel , L. H. (inner)	26	S. 1106	Nut , for securing stand
18	S. 897	Screw , self - locking	27	54146	Shoe , R. H.
19	85073	R. H. mat retainer strip	27	54147	Shoe , L. H.
19	85074	L. H. mat retainer strip	28	54140	Stand , with rubber shoes (Fig. n. 27)
20	85072	Rubber mat	29	S. 12306	Bolt , secur. muffler to engine
21	47872	Spring , return, of stand legs	30	S. 3060	Washer , plain, for screw securing muffler to engine
22	77252	Spring retainer clip	31	S. 3110	Washer , spring, for securing muffler to engine
23	S. 12281	Bolt , securing stand			
24	59188	R. H. clip , of centre stand			
24	59189	L. H. clip , of centre stand			

TABLE XII



PARTS LIST FOR STEERING COLUMN
Steering column - Mudguard - Front Wheel hub

(TABLE XII)

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	S. 12131	Nut , securing wheel	10	S. 3055	Washer , plain, for securing mudguard
2	S. 3111	Washer , spring, for nut securing wheel	11	86895	Crest , with fig. 12
3	2002	Drum , front brake	12	85508	Ring , clamp
4	2021	Screw , clamping brake drum	13	89301	Mudguard , with crest fig. 11
5	S. 1105	Nut , for bolt securing mudguard	14	8440	Shoulder , rod
6	S. 3105	Washer , spring, under nut securing mudguard	15	97196	Steering column , with inserts
7	60201	Washer , plain, for bolt securing mudguard	16	25641	Hub , front wheel, with plug and shoulder rod (Fig. n. 14)
8	S. 14467	Bolt , securing mudguard	17	22001	Jaw , brake, with lining
9	2957	Bolt , for securing mudguard to steering column	18	61	Clip , spring, for brake jaws
			19	94534	Axle , front wheel with fig. 1

Parts list for steering Column — Steering column - Mudguard - Front Wheel hub - Continued.

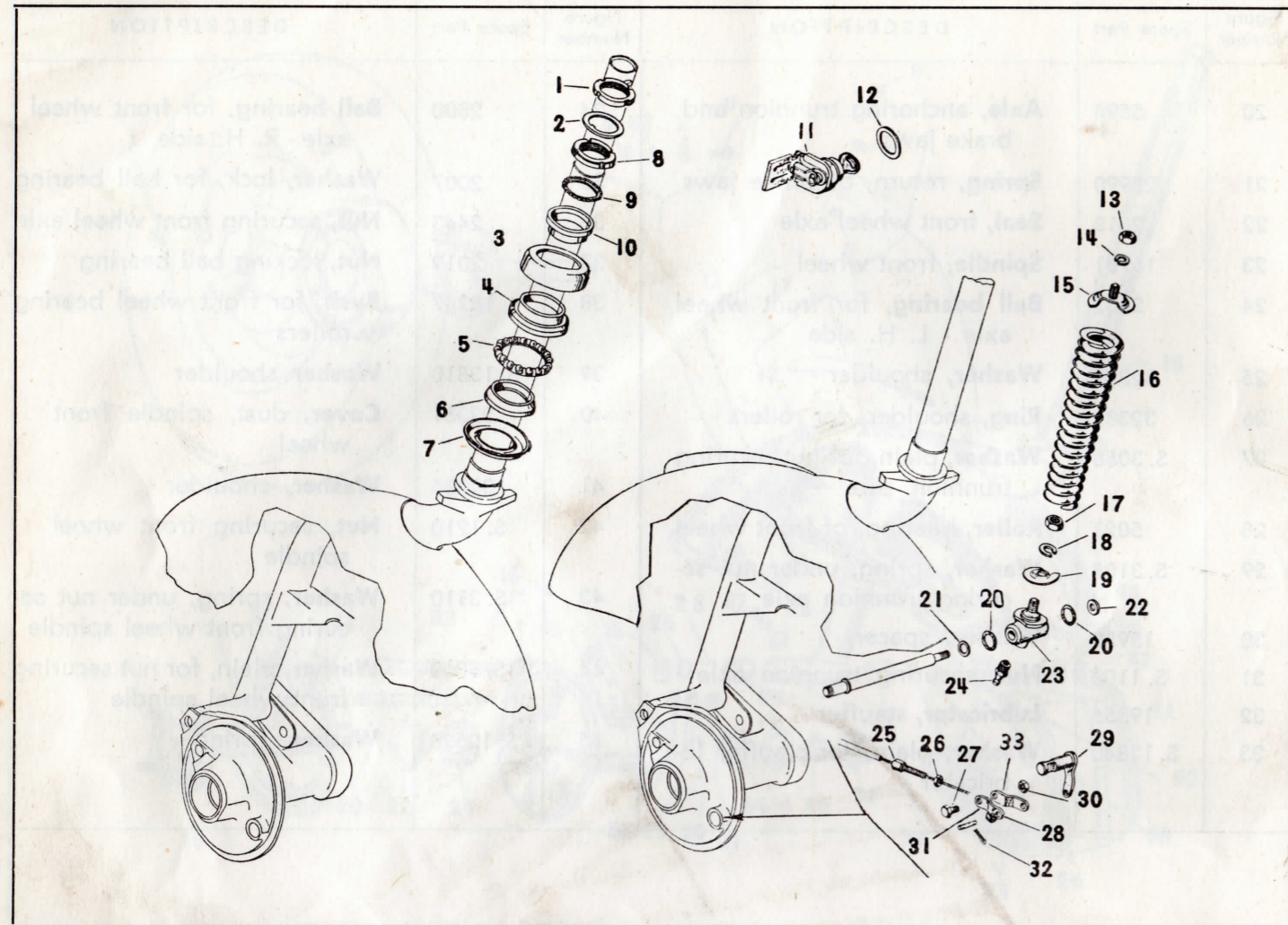
Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
20	5598	Axle , anchoring trunnion and brake jaws	34	2800	Ball bearing , for front wheel axle - R. H. side
21	25990	Spring , return, of brake jaws	35	2007	Washer , lock, for ball bearing
22	2018	Seal , front wheel axle	36	2443	Nut , securing front wheel axle
23	16781	Spindle , front wheel	37	2019	Nut , locking ball bearing
24	2802	Ball bearing , for front wheel axle - L. H. side	38	18247	Bush , for front wheel bearing rollers
25	32389	Washer , shoulder	39	S. 13810	Washer shoulder
26	32385	Ring , shoulder, for rollers	40	32381	Cover , dust, spindle front wheel
27	S. 3058	Washer , plain, for nut securing trunnion axle	41	32386	Washer , shoulder
28	5021	Roller , bearing, of front wheel	42	S. 1210	Nut , securing front wheel spindle
29	S. 3108	Washer , spring, under nut securing trunnion axle	43	S. 3110	Washer , spring, under nut securing front wheel spindle
30	15982	Washer , spacer	44	S. 3060	Washer , plain, for nut securing front wheel spindle
31	S. 1108	Nut , securing trunnion axle	45	S. 12528	Washer , spring
32	19556	Lubricator , stauffer			
33	S. 13840	Washer , plain, for stauffer lubricator			

PARTS LIST FOR STEERING COLUMN
Front suspension - Security lock

(TABLE XIII)

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	11109	Ring , threaded, for locking steer. colum top ball bearing	7	19264	Washer , protection, of steering column bottom ball bearing
2	3751	Washer , lock, of steering column to ball bearing	8	55986	Seat , upper, of steering column top ball bearing
3	26383	Cover , dust	9	77024	Ball cage , for steering column top bearing
4	56642	Seat , upper, of steering column bottom ball bearing	10	93041	Seat , lower, of steering column top ball bearing
5	77023	Ball cage , for steering column bottom bearing	11	82416	Lock , security
6	55989	Seat , lower, of steering column bottom ball bearing	12	12643	Washer , for threaded ring of security lock

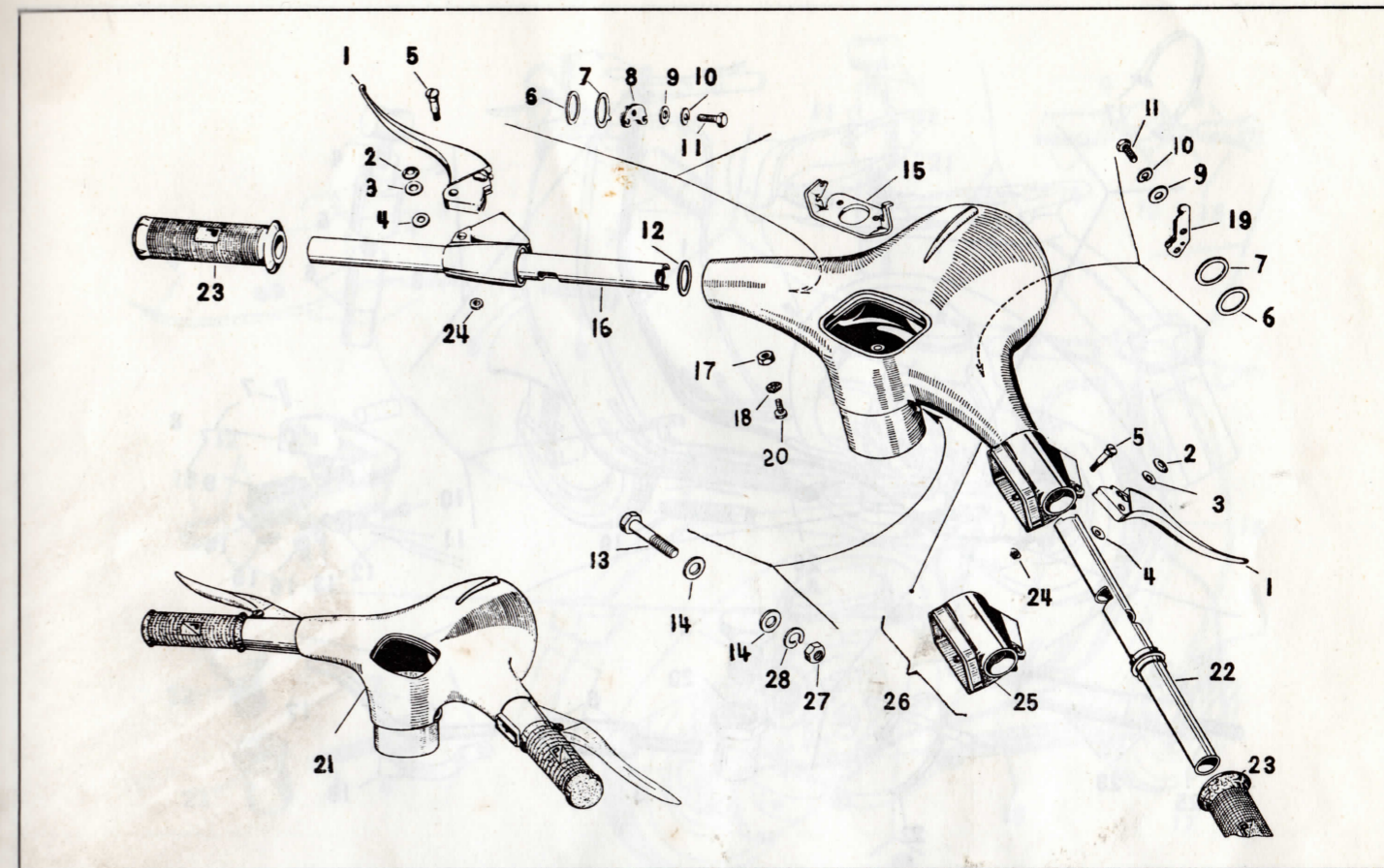
TABLE XIII



Parts list for steering column — Front suspension - Security lock - Continued.

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
13	S. 1108	Nut , securing front suspension spring	24	19556	Lubricator , stauffer
14	S. 3108	Washer , spring, under nut securing spring top	25	2040	Adjuster of front brake
15	35623	Plate , top	26	2444	Nut , jam, for front brake adjuster
16	35585	Spring , front suspension	27	2036	Bolt , securing cable to brake links
17	S. 1109	Nut , securing spring bottom	28	2083	Pin , for brake links
18	S. 3109	Washer , spring, under nut securing spring bottom	29	97590	Lever , front brake
19	35582	Plate , bottom	30	S. 1207	Nut , on bolt securing brake links
20	11623	Packing , for trunnion	31	97108	Link , front brake, L. H.
21	S. 13770	Washer , plain, for trunnion	32	S. 3204	Split pin , on pin for brake links
22	S. 13771	Washer , plain, for trunnion	33	83608	Link , front brake, R. H.
23	35581	Trunnion for front suspension spring			

TABLE XIV

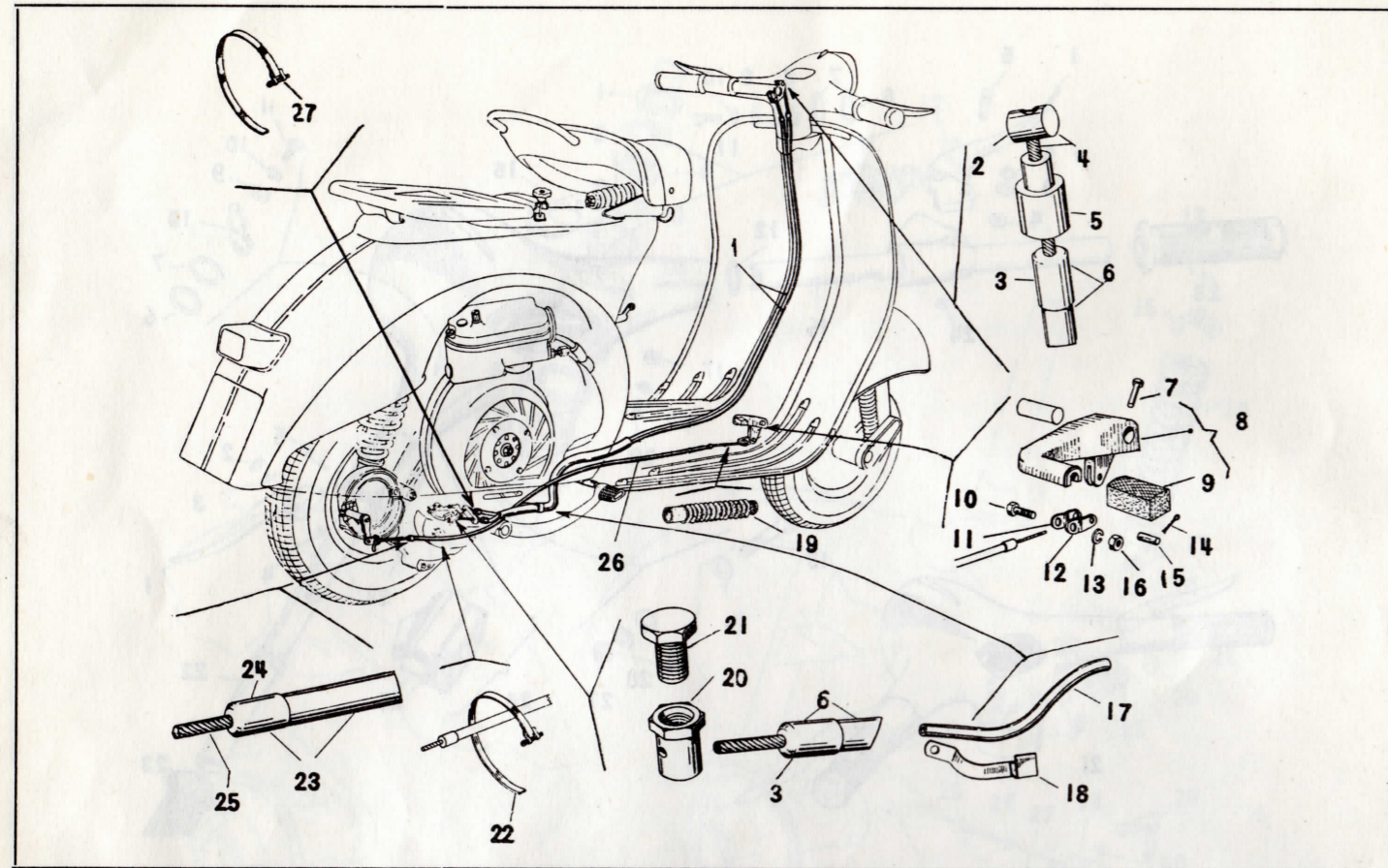


PART LIST FOR HANDLEBARS
Handlebars - Controls

(TABLE XIV)

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	70578	Lever , clutch and front brake control	16	29928	Tube , with inserts, for gear change control
2	17492	Washer , spring, for securing control levers	17	S. 1105	Nut
3	97734	Washer	18	S. 12528	Washer , spring
4	97733	Washer	19	84240	Lever throttle control
5	S. 14629	Screw , securing control levers	20	S. 12329	Screw
6	60566	Washer , plain	21	99268	Handlebars , g. a. (Figs. n. 2 - 1 - 4 - 23 - 12 - 3 - 7 - 8 - 6 - 15 - 19 - 16 - 26 - 22 - 17 - 18 - 10 - 27 - 28 - 11 - 24 - 13 - 20 - 5 - 9 - 14)
7	60565	Washer , spring	22	94370	Tube , for throttle control
8	60557	Gear change crank	23	60304	Rubber , twistgrip
9	S. 13880	Washer , plain	24	S. 12136	Nut , for screw securing control levers
10	S. 3106	Washer , spring	25	51220	Switch , housing
11	S. 12281	Bolt	26	98481	Handlebar casting (with fig. 25)
12	60312	Washer , spacer on gear change sleeve	27	S. 12030	Nut
13	S. 12355	Bolt , securing handlebars to steering column	28	S. 3110	Washer , spring
14	S. 13792	Washer , plain			
15	84239	Plate , anchor			

TABLE XV



PARTS LIST FOR CONTROLS

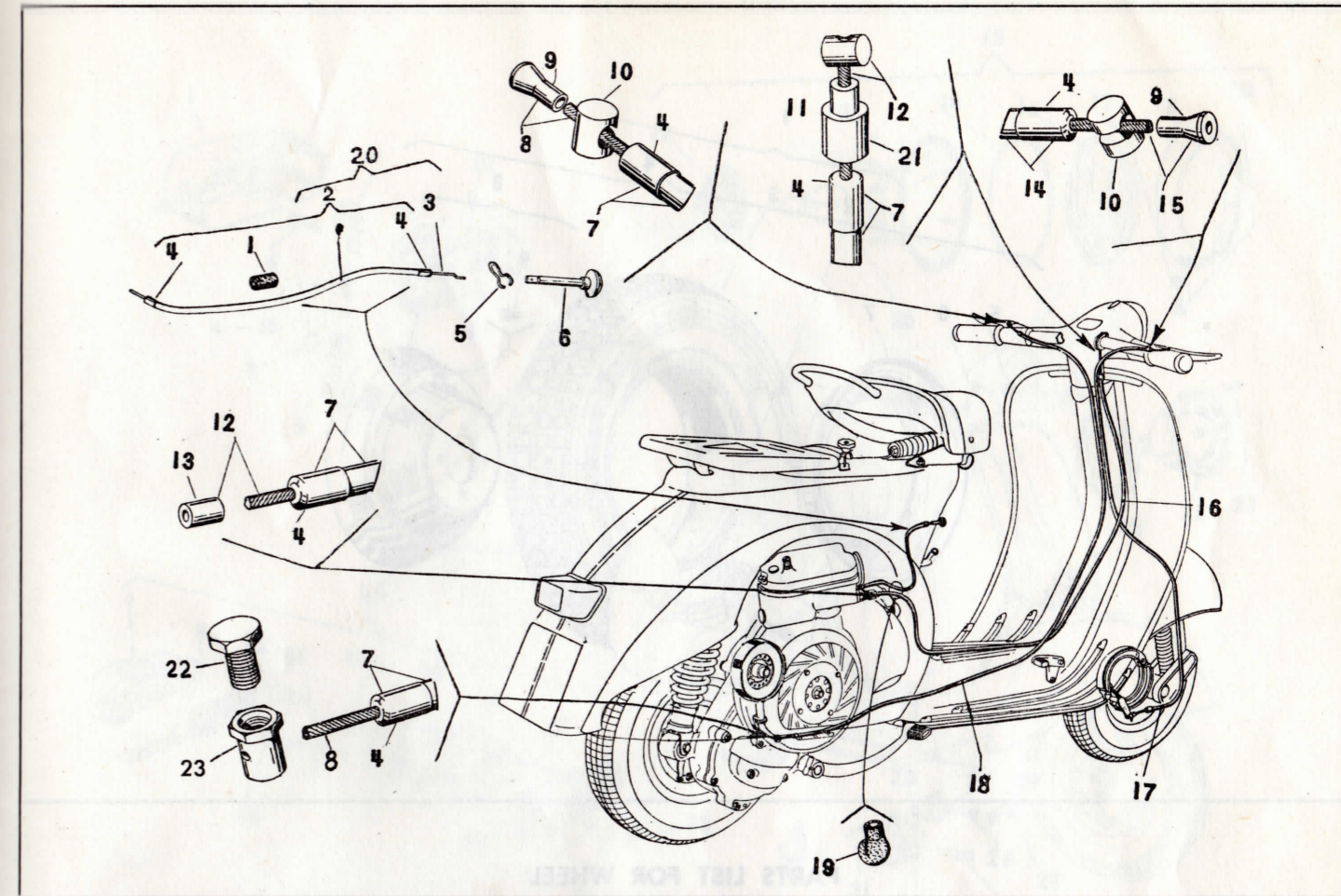
Gear change and rear brake control cables - Pedal

(TABLE XV)

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	93282	Wire, gear change control, g. a. (Figs. n. 6 - 5 - 4)	13	S. 3109	Washer, spring
2	14657	Nipple	14	S. 3204	Split pin
3	a) 2174	Ferrule	15	92796	Pin, for brake links
4	26247	Cable, gear change control, with nipple fig. 2	16	S. 1426	Nut, for bolt securing cable to brake links
5	26249	Terminal	17	15350	Tube, protection
6	93280	Sheath, for clutch and gear change control cables, with ferrule fig. 3	18	82385	Clip, gear change control
7	S. 11510	Pin, locking, for rear brake pedal	19	57321	Protective, bellows
8	94451	Rear brake pedal g. a. (with fig. 9)	20	15395	Nipple, threaded
9	93100	Rubber sleeve, brake pedal	21	S. 10016	Screw, clamp, for gear change control cable
10	85673	Bolt, securing cables to brake links	22	83333	Clip, rear brake
11	92795	Link, rear brake, L. H.	23	93934	Sheath, gear change control cable, with ferrule fig. 24
12	92794	Link, rear brake, R. H.	24	a) 23825	Ferrule
			25	85547	Cable, rear brake control
			26	93953	Wire, rear brake, g. a. (Figs. n. 25 - 23)
			27	97326	Clip, for gear change sheaths

a) Ferrules No. 2174 and 23825 must be lightly squashed on the cable sheath on assembly.

TABLE XVI

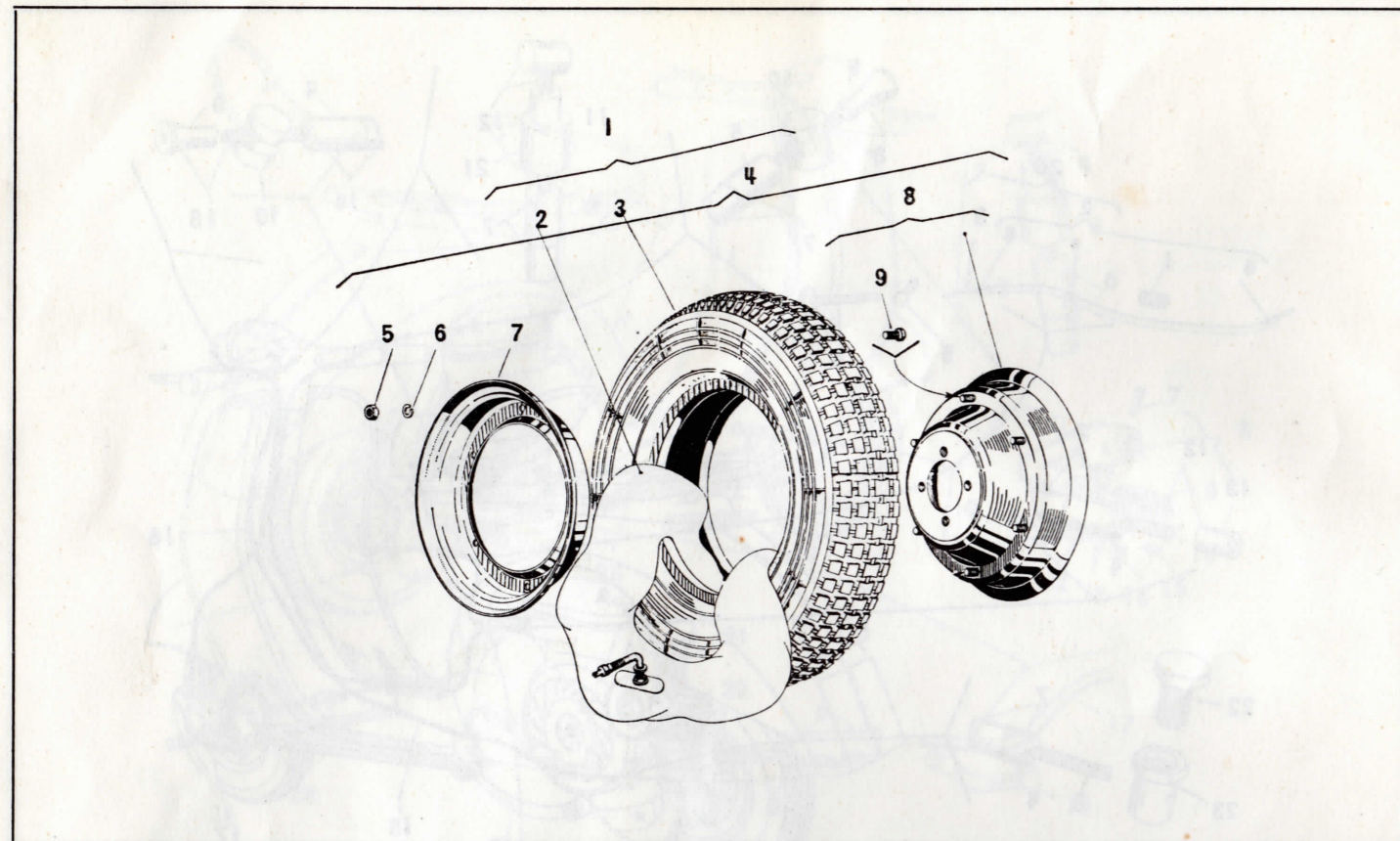
PARTS LIST FOR CONTROLS
Front brake, throttle, clutch control cables - Choke

(TABLE XVI)

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	77055	Grommet	13	24929	Nipple, carburettor side
2	50188	Sheath, starter with ferrule fig. 4	14	19093	Sheath, for front brake control cable, with ferrule fig. 4
3	92371	Cable, starter	15	81345	Cable, front brake control, with nipple fig. 9
4	a) 2174	Ferrule	16	84810	Wire, throttle control, g. a. (Figs. n. 7 - 13 - 21 - 12)
5	50207	Spring, starter control rod	17	85051	Wire, front brake control, g. a. (Figs. n. 14 - 15)
6	2/49625	Starter control rod	18	98411	Wire clutch control, g. a. (Figs. n. 9 - 7 - 8)
7	19079	Sheath, throttle control, with ferrule fig. 4	19	48171	Grommet
8	84783	Cable, clutch control, with nipples fig. 9	20	92370	Starter cable g. a. (Figs. n. 1 - 2 - 3)
9	2777	Nipple	21	26249	Nipple, handlebars side
10	18699	Nipple, on front brake and clutch control cables	22	S. 10016	Screw, for terminal
11	26252	Nipple, handlebars side	23	15395	Nipple, threaded
12	26587	Cable, throttle control, with nipples fig. 11			

a) Ferrules No. 2174 must be slightly squashed on the cable sheath at the assembly.

TABLE XVII



PARTS LIST FOR WHEEL
Rim - Tire

(TABLE XVII)

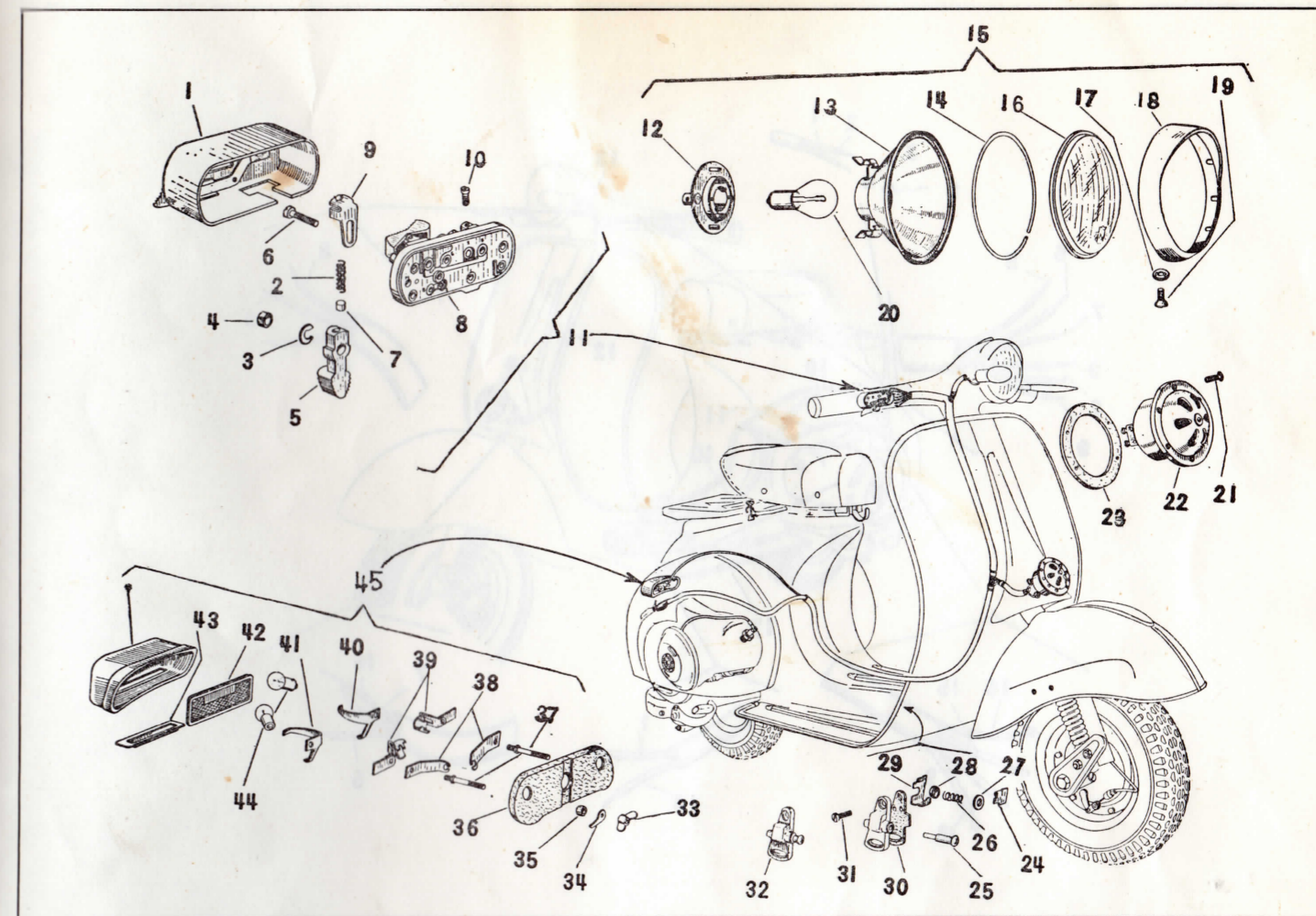
Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	17083	Wheel, g. a. (Figs. n. 3 - 2 - 4)	5	S. 12011	Nut
2	2736	Tube, inner	6	S. 3108	Washer, spring
3	2735	Tire, 3,50 x 8" motor - scooter type	7	17084	Flange
4	2/17085	Rim, g. a. (Figs. n. 8 - 7 - 6 - 5)	8	14342	Rim, with fig. 9
			9	S. 12468	Bolt

PARTS LIST FOR ELECTRIC EQUIPMENT
Head lamp - Tail lamp - Horn - Switch - Stop

(TABLE XVIII)

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	89642	Cover, switch	10	28334	Screw switch clamps
2	28329	Spring, switch	11	89668	Switch, g. a. (Figs. n. 2 - 10 - 3 - 5 - 7 - 9 - 1 - 4 - 8 - 6)
3	87058	Washer, spring	12	83264	Socket, bulb
4	89665	Cap, insulating	13	25323	Reflector, head lamp
5	87554	Dipping lever	14	25325	Packing, between glass and reflector
6	S. 14404	Screw, securing switch to handlebar	15	97268	Head lamp g. a. (Figs. n. 13 - 14 - 16 - 17 - 12 - 18 - 19)
7	87555	Pin	16	25324	Glass, head lamp
8	93066	Board, clamp			
9	87556	Contact			

TABLE XVIII

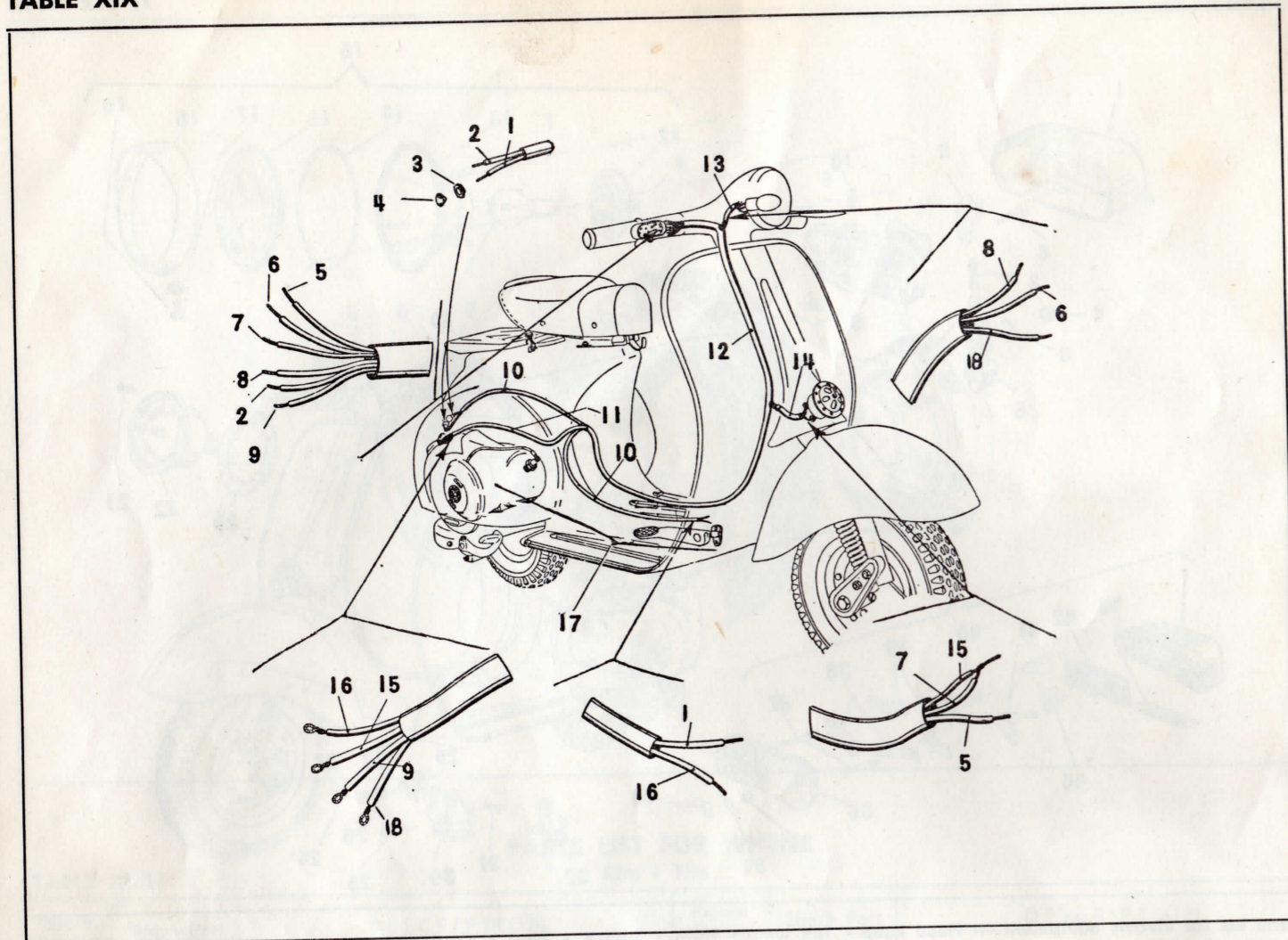


Parts list for electric equipment — Head lamp - Tail lamp - Horn - Switch - Stop - Continued.

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
17	42024	Washer, spacer	34	16627	Washer, spring, under wing nut securing tail lamp
18	97269	Rim, head lamp	35	21473	Spacer, tail lamp
19	S. 10012	Screw, securing head lamp	36	80974	Gasket, between chassis and tail lamp
20	a) 1517 (or 18497)	Bulb, two beam, for head lamp			
21	2963	Screw, securing horn			
22	93870	Horn			
23	25715	Packing, horn	37	18425	Stud, for tail lamp attachment to chassis
24	93725	Contact, R. H.	38	26836	Carrier, bulb, with inserts, L. H.
25	86323	Pin, STOP switch	39	26835	Carrier, bulb, with inserts, R. H.
26	93723	Spring, STOP switch	40	20916	Spring, L. H., retaining reflecting glass
27	S. 13890	Washer, plain	41	20915	Spring, R. H., retaining reflecting glass
28	93726	Plate, for STOP switch spring	42	23907	Glass, tail lamp
29	93724	Contact, L. H.	43	20919	Glass, bottom, of tail lamp
30	82783	Gasket, STOP switch	44	a) 1502 (or 18498)	Bulb, tail lamp
31	S. 14555	Screw, securing STOP switch	45	25532	Tail lamp, g. a. (Figs. n. 37 - 41 - 40 - 43 - 42 - 39 - 38)
32	93722	Switch STOP, g. a. (Figs. n. 25 - 26 - 29 - 24 - 28 - 27)			
33	15178	Nut, wing, securing tail lamp			

a) Regular Sears stock item.

TABLE XIX

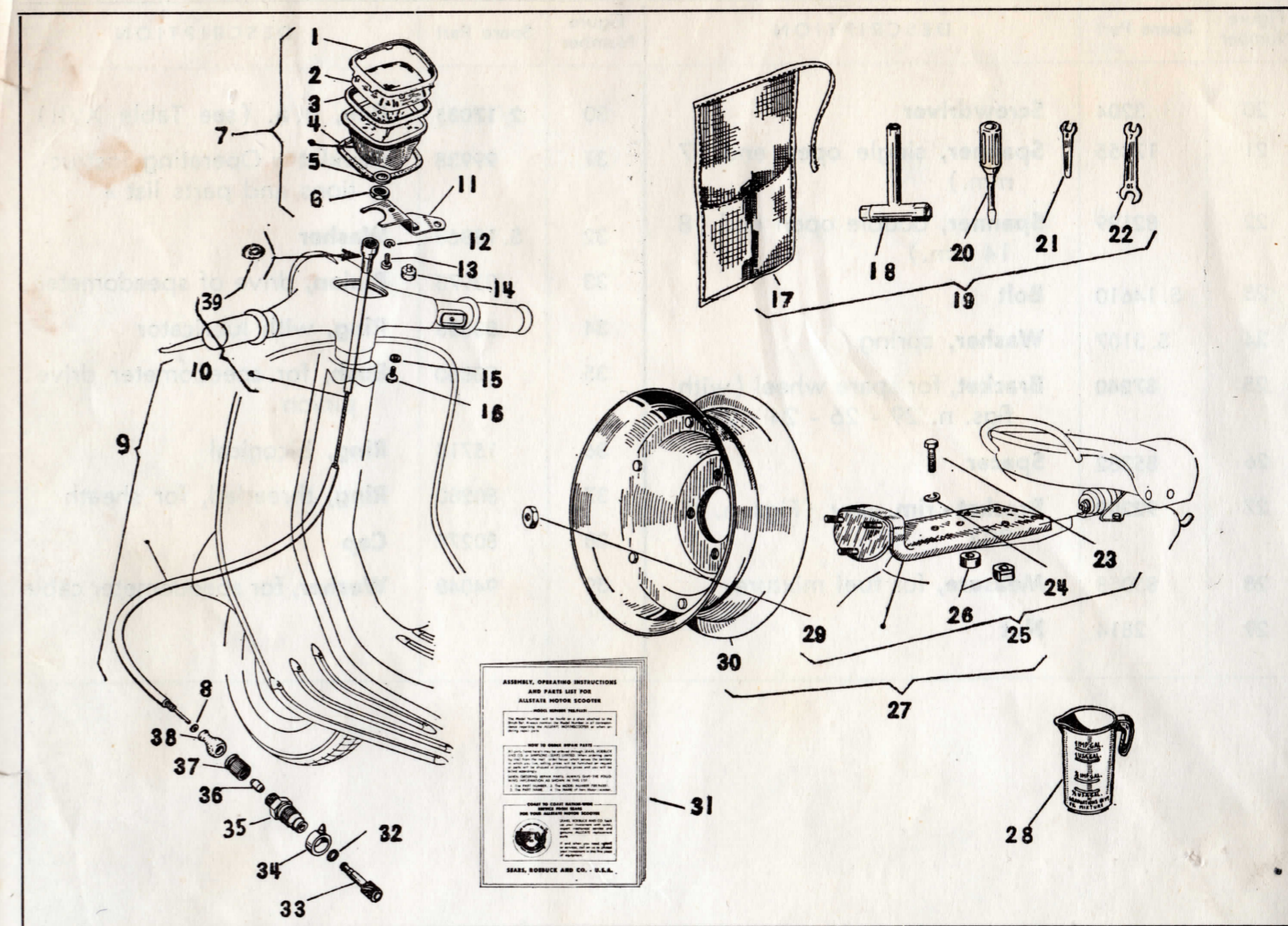


PARTS LIST FOR ELECTRIC EQUIPMENT
Cable harness

(TABLE XIX)

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	83120	Cable, from STOP switch to tail lamp	11	10215	Tube, insulating, for cables of low tension socket
2	82024	Cable, from switch to tail lamp	12	87306	Sheath, insulating
3	20913	Plate, insulating	13	84191	Tube, insulating, for head lamp cables
4	23349	Tag, contact	14	15468	Tube, protection
5	82022	Cable, from switch to horn lamp	15	82030	Cable, from low tension socket to horn
6	81375	Cable, from switch to head lamp	16	83121	Cable, from low tension socket to STOP switch
7	82023	Cable, from horn to switch	17	83262	Wiring, g. a. (Figs. n. 11 - 14 - 3 - 4 - 8 - 6 - 2 - 5 - 7 - 9 - 15 - 18 - 1 - 16 - 13 - 10 - 12)
8	81374	Cable, from switch to head lamp	18	82032	Cable, from head lamp to low tension socket
9	82026	Cable, from switch to low tension socket			
10	84348	Tube, insulating, for tail lamp cables			

TABLE XX



PARTS LIST FOR HAND TOOLS, SPEEDOMETER AND ACCESSORIES
Tool kit - Speedometer - Spare wheel and bracket

(TABLE XX)

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
1	83204	Frame, for speedometer glass	10	94052	Cable, flex drive with washer fig. 39
2	83202	Glass, for speedometer	11	93113	Support, speedometer
3	83203	Packing, between glass and frame	12	S. 3105	Spring, washer
4	93117	Packing, for speedometer housing	13	S. 12490	Screw
5	S. 13920	Packing	14	23969	Rubber pad
6	S. 12113	Nut	15	S. 13882	Washer, plain
7	93121	Speedometer, miles (with figs. n. 2 - 3 - 1 - 4 - 6 - 5)	16	S. 10018	Screw, securing speedo.
8	S. 13862	Washer, stop, on flex drive	17	11469	Roll, tool
9	84741	Flex, drive (Figs. n. 36 - 38 - 37 - 10)	18	3202	Spanner, box (11 - 14 - 21 and 22 mm.)
			19	82204	Roll, tool, complete (Figs. n. 18 - 20 - 17 - 21 - 22)

Parts list for hand tools and accessories — Tool kit - Speedometer - Spare wheel and bracket - Continued.

Figure Number	Spare Part	DESCRIPTION	Figure Number	Spare Part	DESCRIPTION
20	3204	Screwdriver	30	2/17085	Rim, g. a. (see Table XVII)
21	17855	Spanner, single open end (7 mm.)	31	99938	Booklet « Operating instructions and parts list »
22	82199	Spanner, double open end (8 14 mm.)	32	S. 13863	Washer
23	S. 14610	Bolt	33	83973	Pinion, drive of speedometer
24	S. 3107	Washer, spring	34	83883	Ring, with lubricator
25	87240	Bracket, for spare wheel (with figs. n. 29 - 26 - 24 - 23)	35	83880	Bush, for speedometer drive pinion
26	85382	Spacer	36	15718	Ring, biconical
27	92209	Bracket - rim, assy. (Figs. n. 25 30)	37	80280	Ring, threaded, for sheath
28	85058	Measure, for fuel mixture	38	80279	Cap
29	2814	Nut	39	94048	Washer, for speedometer cable