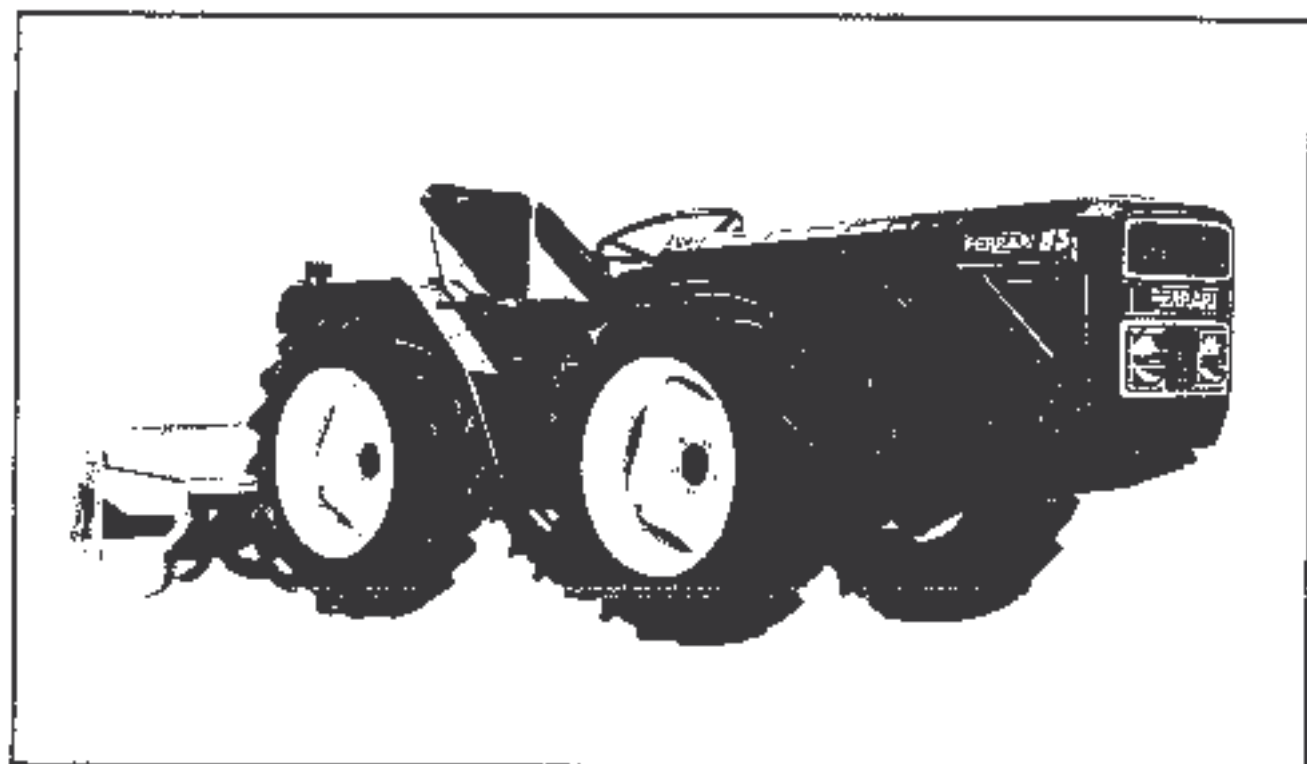


TRACTOR 85



FERRARI

MACCHINE AGRICOLE



INTRODUCTION

IDENTIFICATION OF TRACTOR

The serial number of the machine is stamped on the right side of the gear box (Fig. 1).

Always state the tractor serial number when placing any order for spare parts and asking for technical assistance.

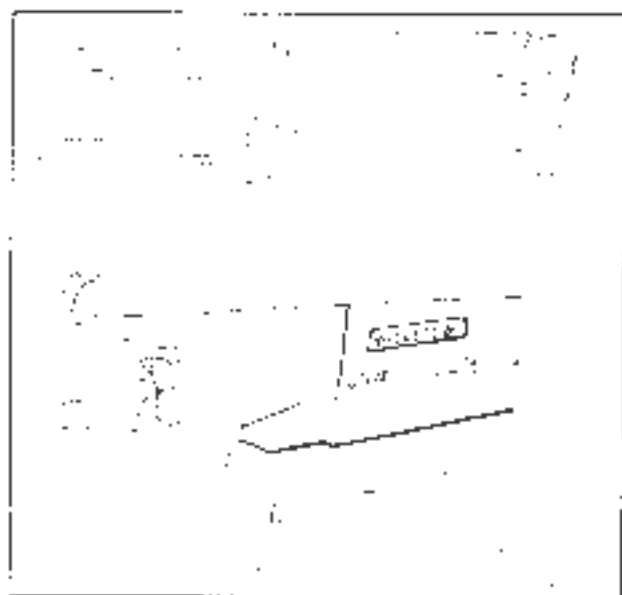


Figure 1. Identification of tractor.

FOREWORD AND RECOMMENDATIONS

The following technical literature is delivered with each Ferrari tractor:

- OWNER'S MANUAL (operation and maintenance instructions)
- ENGINE HANDBOOK
- DIRECTIONS AND SUGGESTIONS FOR USERS OF FERRARI TRACTORS
- CERTIFICATE OF GUARANTEE

Reading the present manual for use and maintenance is essential to make full use of possibilities and performance of your Ferrari tractor.

As present manual refers to essential information only, it is strongly recommended for users going through handbook "DIRECTIONS AND SUGGESTIONS FOR USERS OF FERRARI TRACTORS".

You will find therein helpful suggestions for best efficiency and trouble-free operation to be achieved.

SPARE PARTS

It is strongly recommended that only ORIGINAL REPLACEMENT PARTS should be used. Orders must be made in accordance with the instructions contained in the Spare Parts Catalogue.

If a copy of the spare parts catalogue is not at hand, contact a Ferrari's Authorized Representative.

TECHNICAL ASSISTANCE

FERRARI MACCHINE AGRICOLE place their Technical Assistance Service at Customer's disposal in order to solve any problem concerning use and maintenance of their machines.

CUSTOMERS may send their requests in writing to:

O.M. FERRARI F. S.p.A.

Via Valbruna, 414

42045 LUZZARA (Reggio Emilia) - ITALIA

Tel. (0522) 835524 (5 linee)

Telex 530144 FERMAC

The Makers reserve the right to modify the machine for any requirement of a commercial/constructural character without obligation to update this publication promptly.



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TRACTOR DATA SHEET

OVERALL DIMENSIONS OF THE TRACTOR

(See Figure 2)

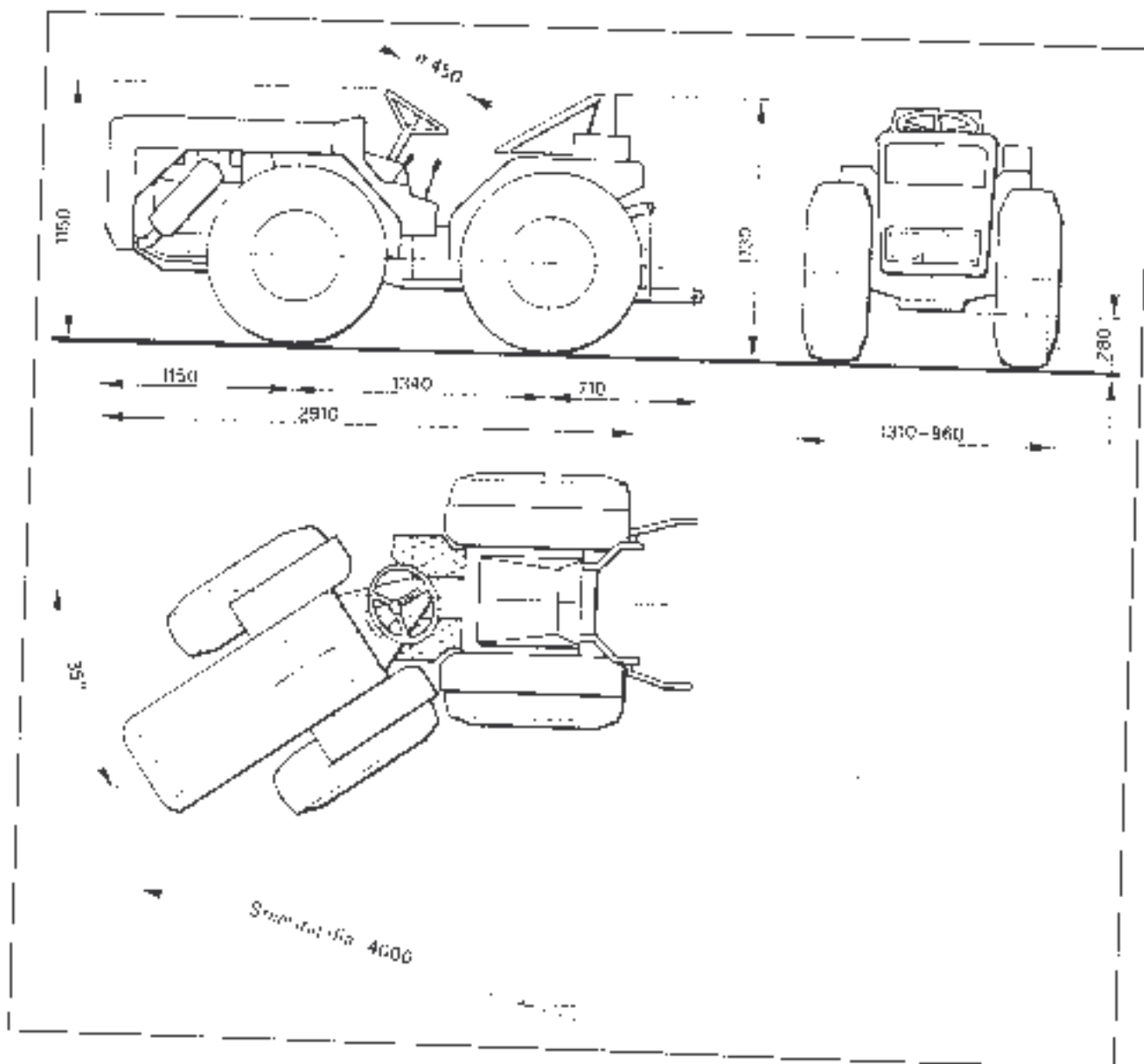


Figure 2 Overall dimensions in mm

ENGINE

The tractor is normally equipped with a Lombardini LDA 675 engine. Engine main specifications are the following:

Type: three cylinders, four stroke, air cooled Diesel engine.

Maximum rpm: 3000 rpm

Maximum power: 15 HP

Upon request different types of engine are available.

CLUTCH

Dry single plate clutch

Upon request, large diameter double clutch controlled through a single pedal to disengage the wheel drive from the power take off.



SPEED SELECTION

Speed selection is allowed through a range selector

(HIGH, LOW REVERSE) and three speed gearing. The gear-box is provided also of the 7th speed used for road movement operations.

TYRE SIZE	SPEED km/h									
	FORWARD							REVERSE		
	LOW			HIGH				1	2	3
	1	2	3	1	2	3	7	1	2	3
9.5-20	1,50	2,70	4,70	5,20	11,00	19,00	25,00	2,70	5,20	9,00

Note: with 7.50-18 tyres, the max. speeds decrease approx. 10%

DRIVE AND STEERING

Drive on the front and rear wheels through locking differentials. Hydraulic steering with jack acting on the central point.

WHEELS AND TYRES

Front wheels: 9.5-20 tyres

Rear wheels: 9.5-20 tyres

Track variation is allowed on both axes.

Tyres 7.50-18 are available on request.

TYRE SIZE	TYPE	INFLATING PRESSURE
Front 9.5-20	Tractor Agrícola 4 pr	1.4 to 1.5 kg/cm ²
Rear 9.5-20	Tractor Agrícola 4 pr	1.3 to 1.4 kg/cm ²
Front 7.50-18	Tractor Agrícola 4 pr	1.2 to 1.3 kg/cm ²
Rear 7.50-18	Tractor Agrícola 4 pr	1.1 to 1.2 kg/cm ²

BRAKES

Service brakes: hydraulic type on front and rear wheels. A pedal controls the special servocontrolled pump for simultaneous braking of all wheels.

Parking and emergency brakes: hand-lever controlled, mechanical design, acting on rear wheels.

ELECTRIC EQUIPMENT

Rated voltage 12 Volt

Battery capacity 90 Amp^h (two 45 Amp^h batteries are provided).

Batteries are recharged through alternator and voltage regulator.

Lighting system and horn are tested and approved for road circulation.

HYDRAULIC LIFTER

Independent hydraulic circuit.

Pump directly coupled to engine. Control valve ensuring an automatic adjustment of work depth and effort. Hydraulic jack for lifting 2 or 3 point hitch connection. Allowable load at arms: 1000 kg approx.

POWER TAKE-OFF

The tractor is normally equipped with two rear power take-off:

- An upper power take-off providing two-speed range independent from tractor speed, a clutch makes it possible the synchronized rotation with all gearshift speed range.
- A lower power take-off providing two-speed range independent from the tractor speed range is the same as the upper power take-off;

The two power take-off are standardized coupling ASAE 1" 3/8". Dimensions are quoted in fig. 3. Rotation is clockwise.

POSITION OF CONTROL LEVER	UPPER AND LOWER TAKE-OFF SPEED	
	ENGINE RPM	
	2.400	3.000
I	540	670
II	750	940

TOWING HOOK

Adjustable in two positions. Class "B" approved for road circulation.

Dimensions are shown in fig. 3.

TRACTOR WEIGHT

Weight of the tractor in running order is 1300 kg.

Allowed ballast: 200 kg.

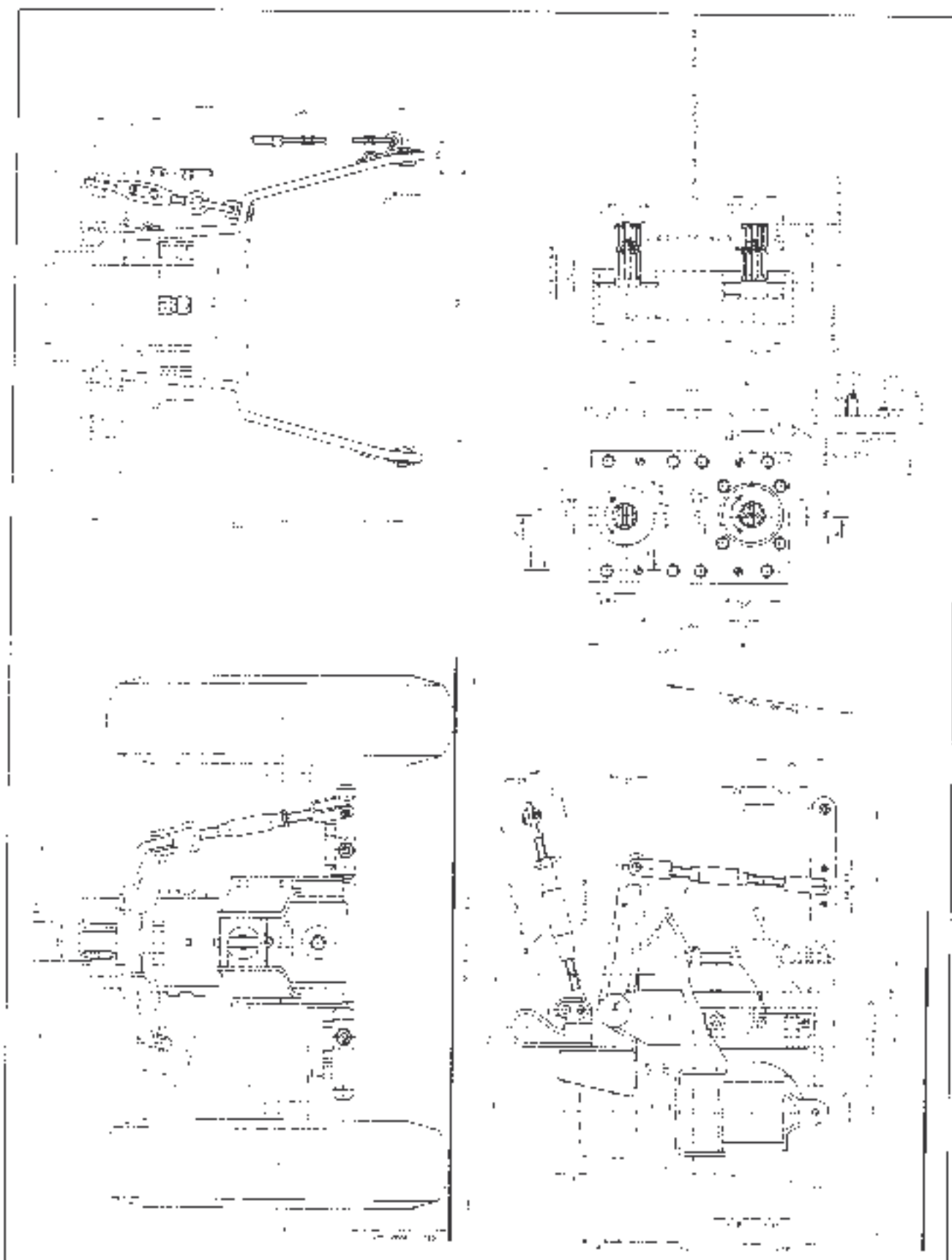


Figure 3 Dimensions of power take-off and towing hook



SERVICING

TYRE INFLATION

- | | |
|----------------------|--|
| 1 FRONT WHEELS | Tyres type Tractor Agricolo 4 pr. 9.5/20
inflating pressure : 4 to 1.5 kg/sq.cm |
| 2 REAR WHEELS | Tyres type Tractor Agricolo 4 pr. 9.5/20
inflating pressure : 3 to 1.4 kg/sq.cm |

FILLING

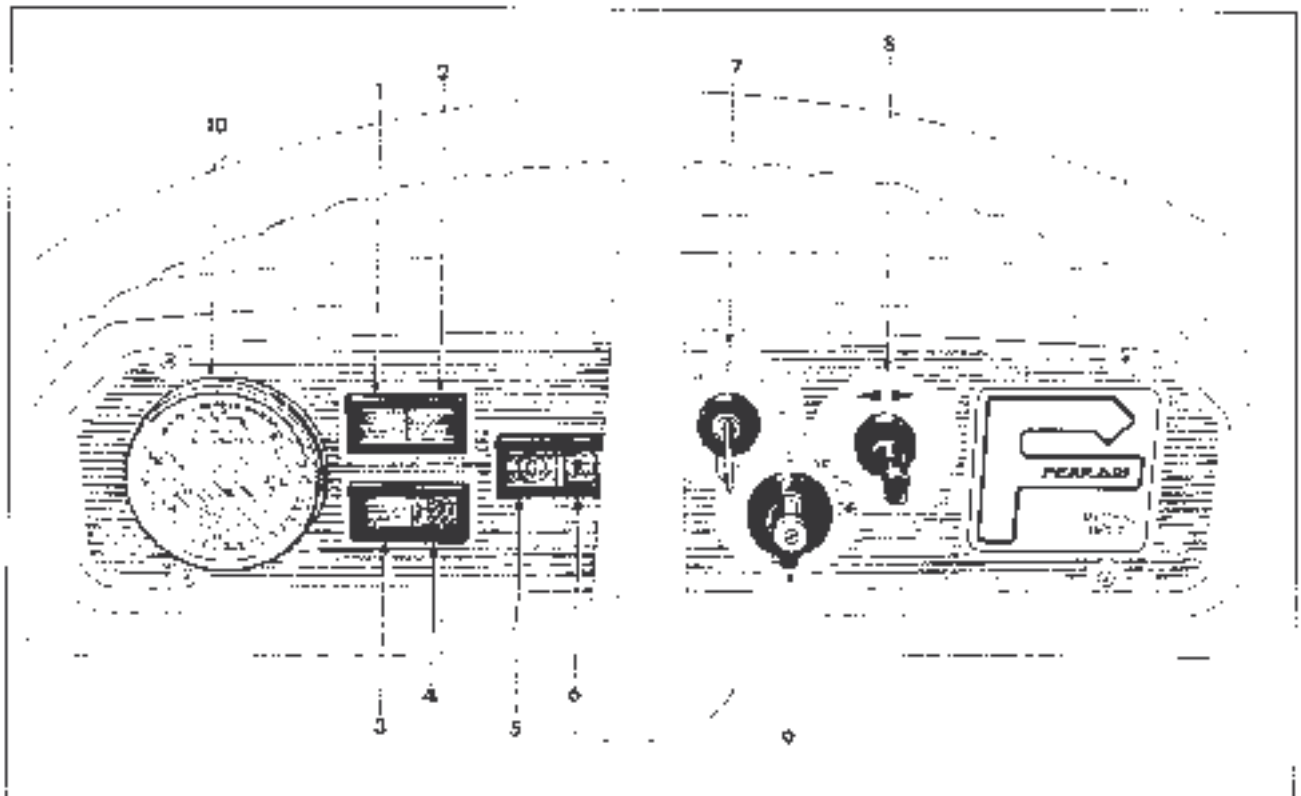
- | | |
|----------------------------------|--|
| 1 FUEL TANK | Capacity 16 liters
Use Diesel fuel (decanter fuel if possible) |
| 2 ENGINE AND AIR FILTER | For lubricant types and capacity see engine
handbook |
| 3 GEAR BOX | Capacity 15 kg
Use BP Energol GR-XP 220 (ISO), or oil
AGIP F1 ROTRA HYPOID SAE 90 |
| 4 REAR AXLE HOUSING | Capacity 10 kg
Use BP Energol GR-XP 220 (ISO) oil,
or AGIP F1 ROTRA HYPOID SAE 90 |
| 5 HYDRAULIC SYSTEM | Capacity 7 kg
Use BP Energol HL 68 oil or AGIP GSD 68
oil |
| 6 TILLER HOUSING | Capacity 1.5 kg
Use BP Energol GR-XP 220 (ISO) oil,
or AGIP F1 ROTRA HYPOID SAE 90 |
| 7 BRAKING SYSTEM RESERVOIR | Capacity 0.250 kg
Use BP DISC BRAKE F.L.D. oil or AGIP
BRAKE F. L.D. oil |



CONTROLS AND INSTRUMENTS OF TRACTOR

CONTROLS AND INDICATORS ON DASHBOARD

(See Figure 4).



1. Signal of directional lights on (GREEN)
2. Signal of directional lights for trailers (GREEN)
3. Signal of headlights fully on (BIUE)
4. Signal of fuel reserve in use (RED)
5. Signal of poor feed for battery recharge (RED) (optional)
6. Signal of low oil pressure to engine (RED)
7. Key-switch

- F. Lights circuit are
- C. No circuit are
1. All circuits are
 2. Engine starting

8. Switch for directional lights and flashers
9. Switch for lights and horn
10. Multiple revolution-counter and hour-meter (3-scale instrument)
 - Outer scale reads engine rpm
 - Intermediate red scale reads power take-off rpm in 2nd speed. Whatever the equipment used, it is recommended to keep constantly at about 750 rpm (red reference notch)
 - Inside red scale reads power take-off rpm in 1st speed. Whatever the equipment used it is recommended to keep constantly at about 550 rpm (red reference notch).
 - The four-digit hour-meter reads the actual hours of engine operation.

Figure 4 Controls and indicators on dashboard



CONTROLS FOR DRIVE AND WORK OPERATIONS

(See fig. 5)

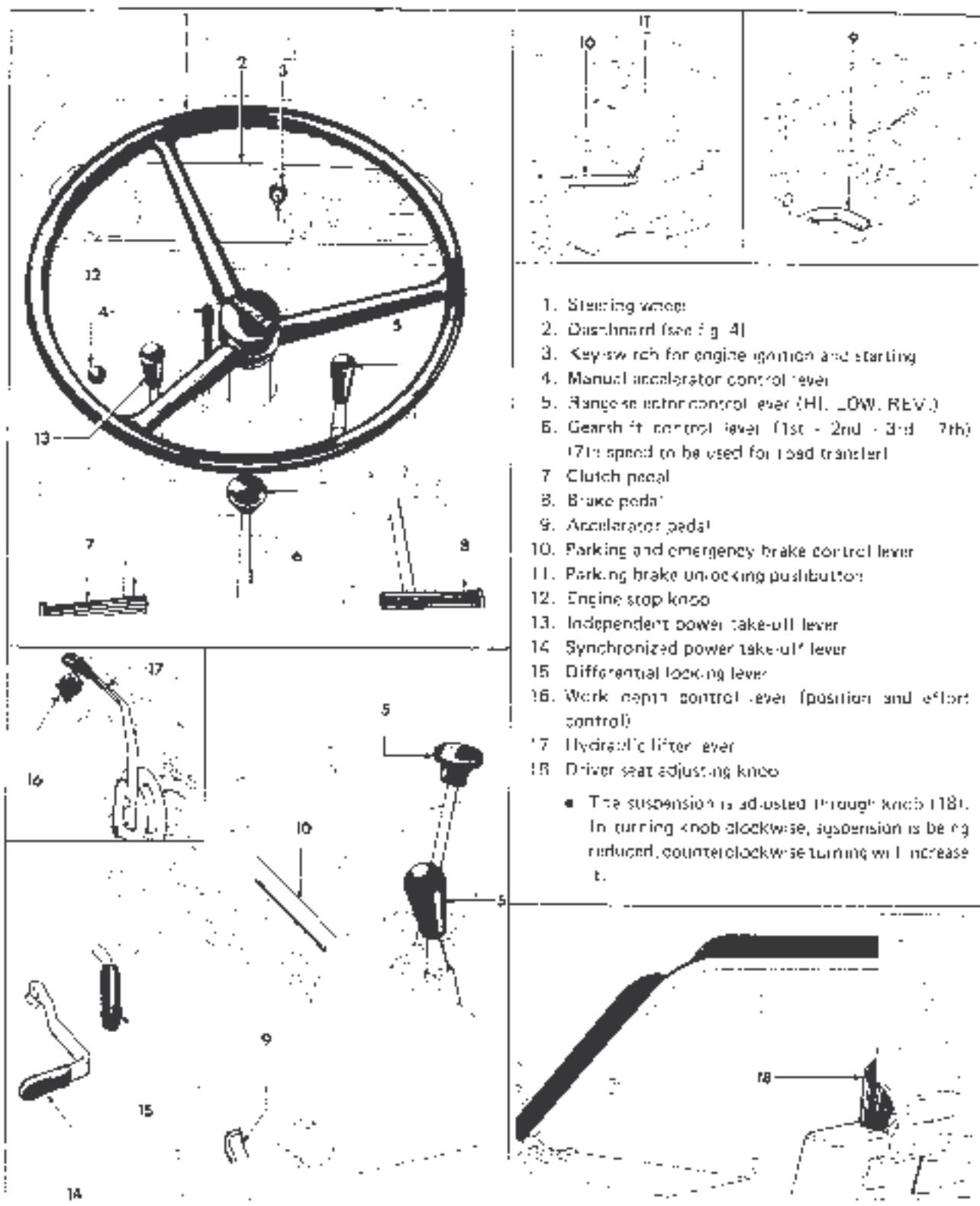


Figure 5 Controls for drive and work operations



USE OF TRACTOR

RUNNING-IN

During the running-in period (first 80 hours of operation) special care should be taken (consult the handbook

"Directions and Suggestions for Users" for detailed information).

During and upon completion of running-in, the operations described under Fig. 6 are to be carried out.

A) ENGINE

- After 20 hours: change oil
- After 50 hours: clean and set fuel injectors
- * During the first 80 hours: avoid heavy-duty and extended work.

B) AIR FILTER

- After 20 hours: clean the filter element
- After 80 hours: change oil

C) HYDRAULIC SYSTEM

- During the first 80 hours: inspect frequently, if required take action for adjustment as prescribed (see page 30).
- After 80 hours: change oil (BP FAPRGL - L 100 or AGIP OSO 65)

D) MAIN UNITS

- During the first 80 hours: inspect all main units (engine, gear box, drive system, attachments, control linkage, etc.) for security of attachment frequently.

* For detailed instructions consult "Directions and Suggestions for Users"

Figure 6 - Instructions for running-in

STARTING OF ENGINE

- For additional information about engine operation, refer to the appropriate instruction booklet (owner's manual)
- For normal starting, proceed as follows (see figure 7)

1. Make sure that the engine stop switch is fully pushed in.
2. Make sure that all control levers (2) are in NEUTRAL position.

3. Bring accelerator control lever (3) to half-way position.
4. Insert key in switch (4) and turn it to position "2".
5. When motor is started, release key which will revert direct to position "1".

Note

In case of failure to start, wait a few seconds prior to doing the starting sequence again, not to cause battery running down.



Consult the engine handbook for additional information.

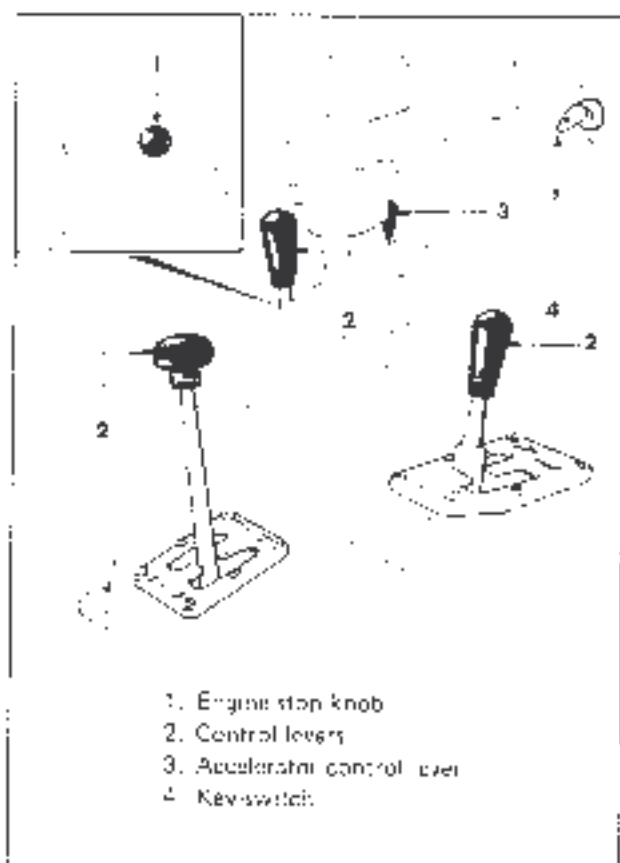


Figure 7. Controls for starting the engine

STOPPING THE ENGINE

1. Bring all control levers to NEUTRAL position.
2. Before turning off the engine, let it run for a few minutes at low RPM to make cooling easier (this is most advisable after a long running).
3. Pull engine stop knob (Fig. 7, detail 1).

WARNING

Do not try stopping the engine by bringing switch key to point on "0" because the engine would keep on running. Long operation of engine with power off may adversely affect the battery.

4. Remove key from switch.
5. After the engine stops, fully push the stop knob (1), otherwise the engine will not start next time.

USE OF TRACTOR

OPERATION SEQUENCE

1. Press clutch pedal (fig. 8, detail 1).

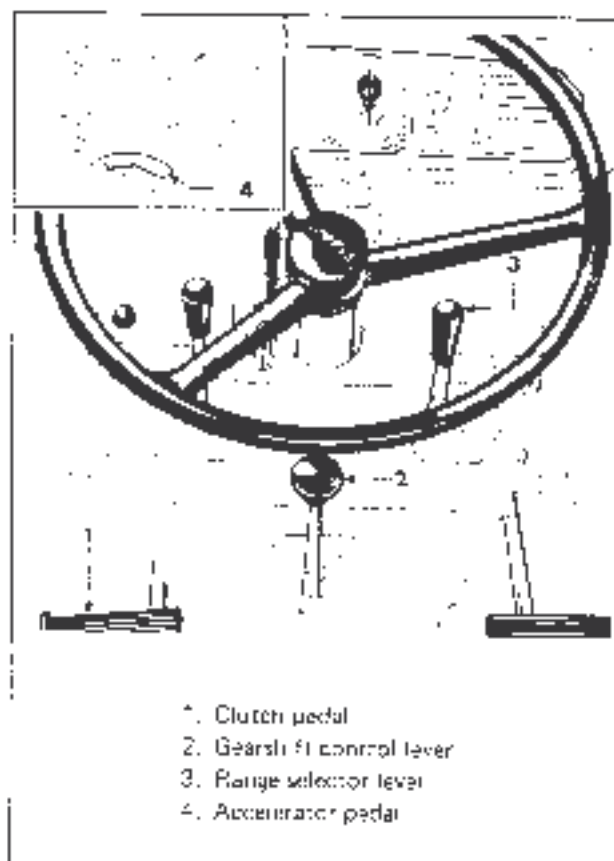


Figure 8. Operation sequence

2. Select the desired speed range (Low, H., Reverse) through lever (3).
3. Select the desired speed gear (1st, 2nd or 3rd) through lever (2).
4. Gradually release the clutch lever.
5. Regulate the position of the accelerator hand lever so that the engine runs evenly and without exhaust smoke.
6. For all subsequent operations and maneuvers, use the accelerator pedal only.

WARNING

- in the event any resistance be encountered when engaging the desired gear or selector particularly during running in, always depress



the clutch pedal over and over again. DO NOT FORCE LEVERS AND ALWAYS MAKE USE OF CLUTCH.

- The selector control lever is to be engaged WHEN TRACTOR IS AT STOP only.

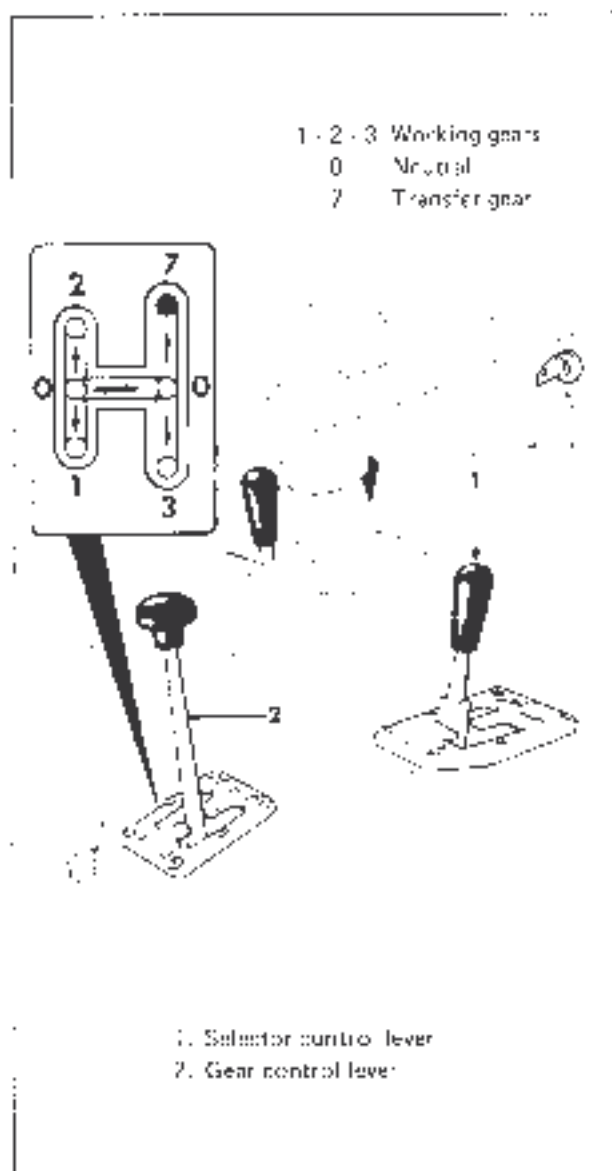


Figure 9. Use of 7th speed

USE OF 7th SPEED (See figure 9)

Whatever the speed previously engaged in the range selector (H), LOW RPM, it is bypassed by engagement of the lever in the 7th gearbox position. This position makes the tractor proceed forward only, at maximum speed and hence is used for fast road movement operations.

WARNING

If the gearshift lever is brought back from the 7th speed to any other gear (excepted), the range selector automatically comes into operation again.

Therefore, for example, shifting from the 7th speed to the 3rd speed, if the range selector was in the reverse position, the tractor will switch from a speed of about 25 km/h forward to a speed of about 9 km/h in reverse.

Thus, before shifting from 7th speed to others, it is **ESSENTIAL TO CHECK THE SPEED ENGAGED IN THE RANGE SELECTOR BY OBSERVING THE POSITION OF THE POINTER**. It is recommended as well to keep the range selector lever in the "NEUTRAL" position when shifting to 7th speed.

The manufacturer is not responsible for any damage caused to operator, tractor or third parties due to improper use of the range selector and gearshift levers.

POWER TAKE-OFF

The tractor is equipped with two power take-off (see fig. 10).

- Lower power take-off providing two independent speeds for operating in miscellaneous implements.
- Upper power take-off providing two independent speeds as the lower shaft speed ratio and additional provisions for synchronization of speeds with the entire gearshift range.

All specifications relating to power take-off (dimensions, rotation speed etc.) are stated under "TRACTOR DATA SHEET" and fig. 3.

SYNCHRONIZATION OF UPPER POWER TAKE-OFF

The synchronized power take-off is driven by the bevel pinion of the rear axle when the relay control lever is engaged (fig. 10, detail 3).

When tractor is at stop, power take-off does not rotate, switching from forward movement to reverse, rotation direction of the power take-off is reversed as well.

Whatever the speed engaged, synchronized power take-off performs 5,256 revolutions per revolution of the wheels.



The synchronized power take-off essential scope is towing driving-wheel trailers. The trailer tyre sizes and reduction ratios must be selected on the basis of the number of revolutions made by the power take-off.

POWER TAKE-OFF SYNCHRONIZER CONTROL LEVER

The control lever is located on right hand side of the rear axle box (see fig. 10).

Control lever to be actuated as follows:

1. Depress clutch pedal.
2. To have power take-off engaged, push lever (1) DOWN.
3. To have it released, pull lever (1) UP.

IMPLEMENTS POWER TAKE-OFF (EITHER UPPER OR LOWER)

OPERATING SEQUENCE

1. Depress clutch pedal.
2. Engage power take-off in the desired speed by bringing the proper lever (Fig. 10) to position I (Low speed) or to position II (High speed).

CAUTION

Make sure the control lever is properly engaged.

3. Gradually release clutch pedal.

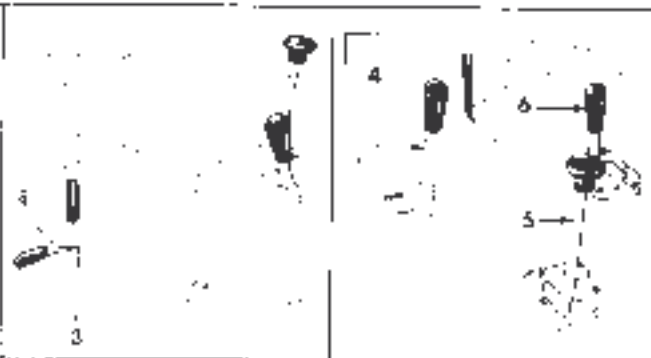
FRONT AND REAR DIFFERENTIALS LOCKING LEVER

The proper control lever to be actuated as follows (see fig. 11):

1. For LOCKING the differentials, stop tractor and pull control lever (1) UP beyond the detent (2).
2. TO UNLOCK the differentials, release the control lever (1) from the detent (2) and take it DOWN.

WARNING

- When engaging the differentials locking lever, slightly steer the tractor to right hand and left hand to make locking engagement easier.



- 1 Upper power take off (independent or synchronized)
- 2 Guard for power take-off (to be put on either power take-off when not in use)
- 3 Synchronized power take off control lever
- 4 Independent power take-off control lever
- 5 Gear shift lever
- 6 Range selector lever
- 7 Electrical connector for trailer
- 8 Towing hook

Figure 10. Power take-off and controls



- DO NOT ENGAGE differentials locking when tractor is under stress.
- TO DISENGAGE locking, depress a button pedal to unlock the wheels thereby allowing the locking sleeves to disengage.
- Do not go round bends with the differential locked.
- Do not keep the differential locked when unnecessary.

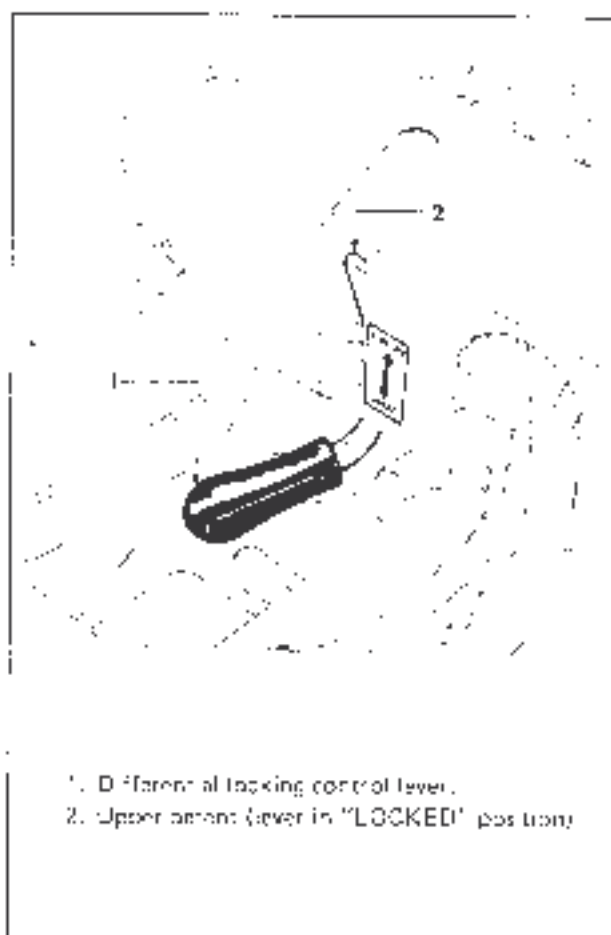


Figure 11. Locking of differentials

HYDRAULIC IMPLEMENT LIFTER

The hydraulic lifters mounted on "FERRARI 85" tractors may be used as described hereinafter.

1. "Stationary" position.
2. Floating operation.
3. Controlled position and effort.

HYDRAULIC LIFTER LEVER

The control lever acts as follows (see fig. 12):

1. LEVER UP: the implement holder raises.
2. LEVER DOWN: the implement holder lowers.
3. LEVER FULLY DOWN: the implement holder gets "floating".

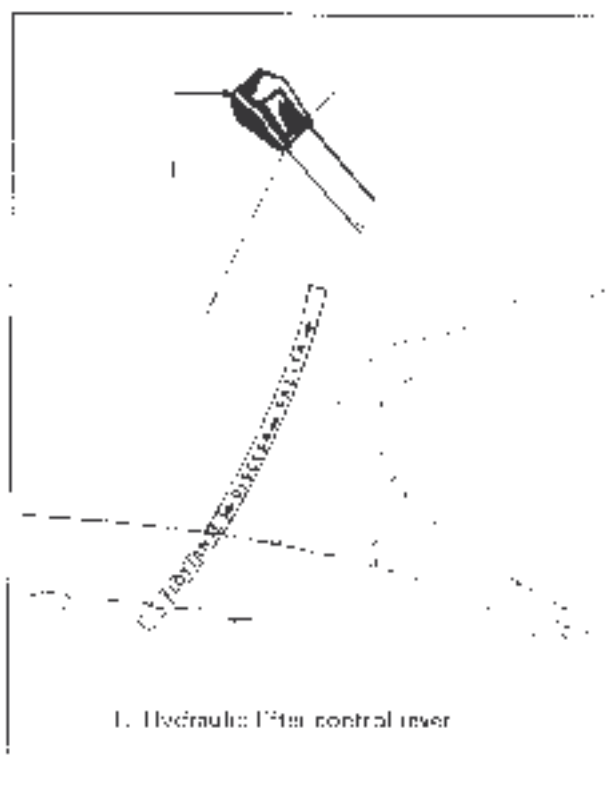


Figure 12. Control system of implement holder: hydraulic lifter

"STATIONARY" OR "FLOATING" POSITION

Note

Make sure the controlled effort lever (fig. 13, item 1) is disengaged (position 10 of graduated scale).

"STATIONARY" USE

"Stationary" position makes it possible to load and hold the implement in any position inside or outside the ground according to the position selected with the lifter lever (fig. 12, item 1). Implement movement depends upon lever motion.



"FLOATING" USE

"Floating" use releases completely the lifter arms, motion of which gets free. In this instance, the lifter is used only to lower the implement at the beginning of each stroke and, during work, the implement follows the ground surface.

CONTROLLED EFFORT LEVER

The controlled effort lever makes it possible adjusting the hydraulic lifter sensitivity as follows (see fig. 13):

1. **LEVER AHEAD** (to number "10" of graduated scale): the implement acts with full power and is less sensitive when resistance is encountered.
2. **LEVER BACK** (to number "0" of graduated scale): the implement gets more sensitive and tends to raise when resistance is encountered.

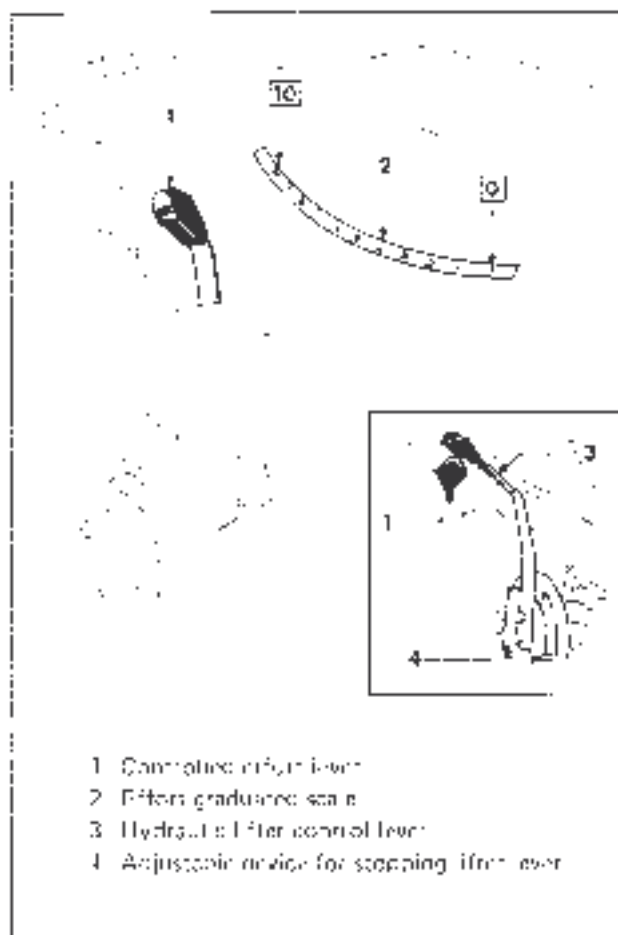


Figure 13 Use of the controlled effort hydraulic lifter

Note

The controlled effort lever can be used only in conjunction with the 3 point hitch.

APPLICATION OF CONTROLLED EFFORT

The controlled effort provision is particularly designed for all carried implements (via no wheel and no bearing geared units) which should work in even deep soil work in even deep soil.

With an appropriate setting of the effort control lever, the implement height varies according to the resistance offered by the soil. The tractor runs more smoothly and the speed is almost constant.

Operate the controls as follows (see fig. 13):

1. Lower the implement by gradually bringing the lifter control lever to "DOWN" position.
2. Keep actuating the lever until the implement gets steady in required depth.
Lock the lever stop (4) to bring it to same position in starting any stroke.
3. Adjust the lifter sensitivity actuating lever (1) as shown in figure 13.

CONNECTION FOR IMPLEMENTS

The tractor is equipped with a two or three point hitch. Consult booklet "DIRECTIONS AND SUGGESTIONS FOR USERS" for instructions concerning connection provisions.

CONNECTION OF A TILLER

(see fig. 11)

Connect the tiller joint (1) to the tractor implement holder by means of pins (2). Connect the tiller arms (3) to joint (1) by means of the appropriate pins (4). Connect tiller attachments to lifter arm (5) through the appropriate tie-bars (6). Adjust the position of the implement with the adjustment nuts (7). The working depth of tiller is controlled according to requirements by moving the side slides of tiller. This is done removing screw (8) and placing it into another hole. Make same adjustment on both sides of the tiller.

Connect universal joint (9) to the power take-off shaft. Depress the safety button (10) and make sure the joint goes beyond the catch. Then insert the clutch end of universal shaft provided with a safety button (10) onto the tiller shaft and bring the universal shaft (tractor side) back to catch position.

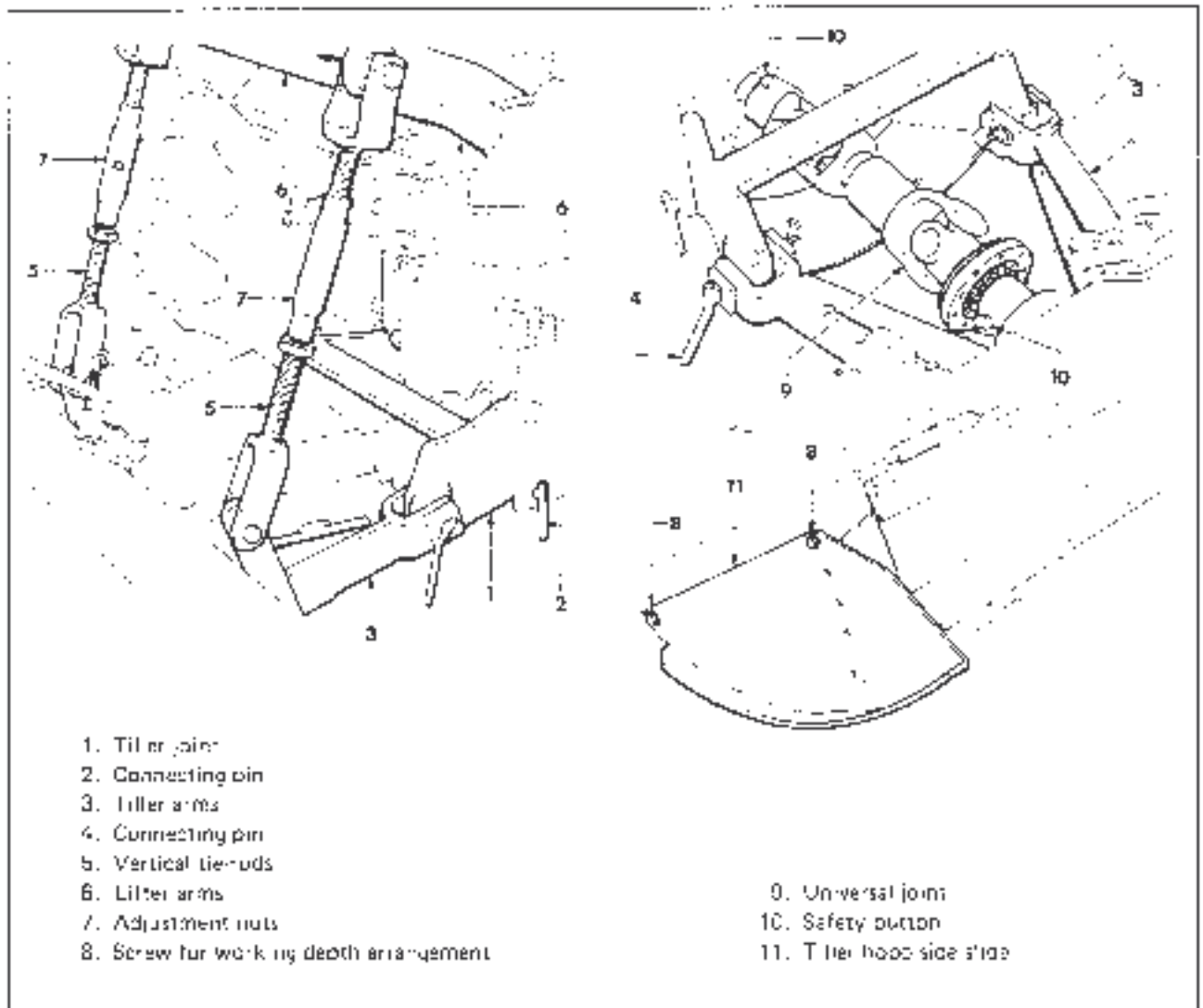


Figure 14. Tiller connection

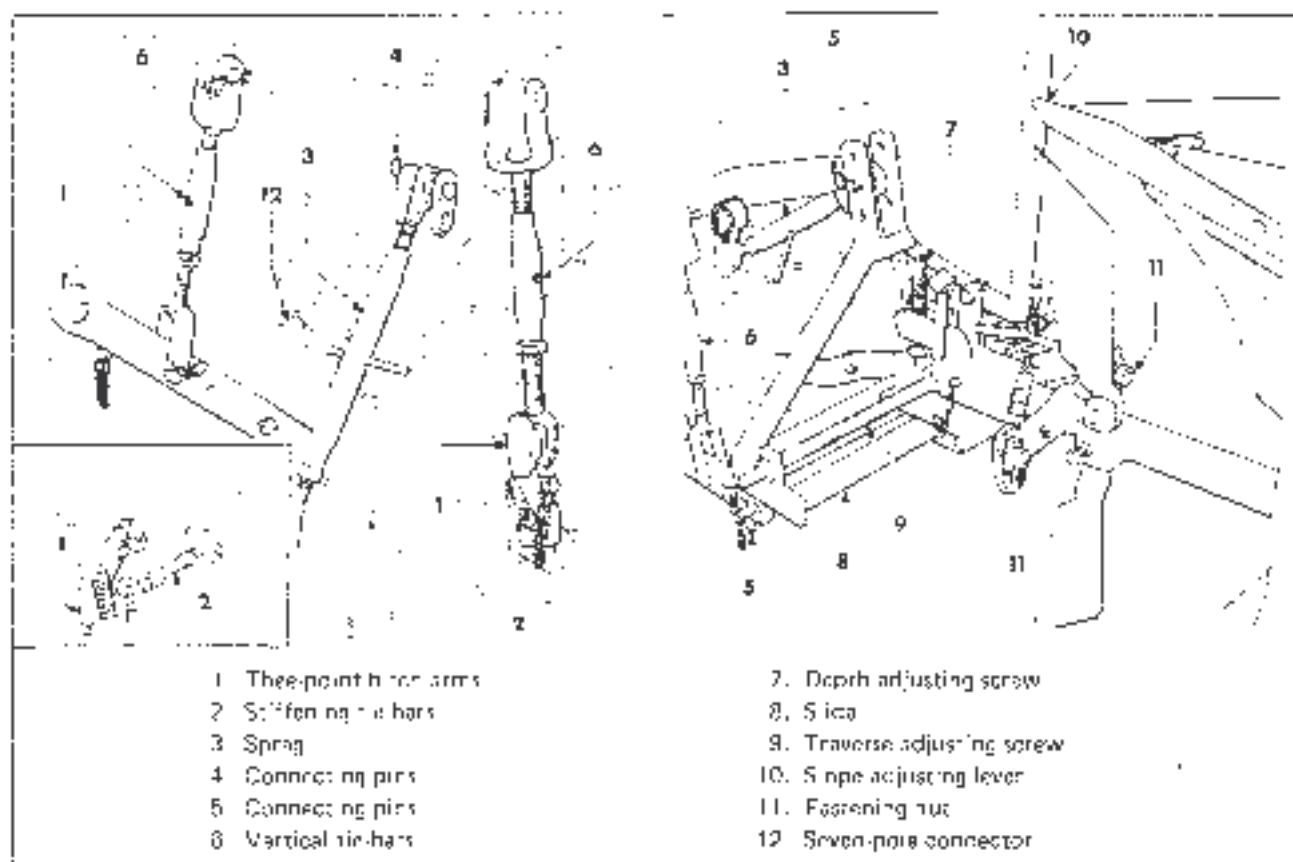
PLOUGH CONNECTION

(see fig. 15)

1. Connect arms (1) to tractor flanges located in the lower portion of rear hubs and fasten through appropriate pins.
2. Connect stiffening tie-bars (2) to arms (1) and flanges located on the axle shaft supports of rear wheels.
3. Connect sprag (3) to tractor implement holder through appropriate pins (4).
4. Connect plough to arms (1) and sprag (3) locking it through pins (5).
5. Connect plough to tiller arms through vertical tie bars (6).
6. Adjust the length of the two lifting tie-bars so that plough lifting is limited to a strictly essential level only.

CONNECTION FOR DRIVING WHEEL TRAILERS

1. Connect the trailer universal joint to the synchronized power take-off shaft (upper shaft).
2. Engage the parking brake lever of trailer into the corresponding socket.
3. Connect the tractor electrical system to the trailer through a 7-pole connector (fig. 15, item 12).
4. Engage the synchronized power take-off control lever as described and shown (see fig. 10).
5. If the trailer is a dump body model provided with hydraulic hoist, arrange connection of tractor hydraulic system to trailer body equipment through the appropriate quick hydraulic intake (fig. 10, item 5) fitted on the tractor (optional).



- 1 Three-point hitch arms
- 2 Stiffening tie bars
- 3 Spring
- 4 Connecting pins
- 5 Connecting pins
- 6 Vertical tie-bars

- 7 Depth adjusting screw
- 8 Shim
- 9 Traverse adjusting screw
- 10 Slope adjusting lever
- 11 Fastening nut
- 12 Seven-pole connector

Figure 15. Plough connection

LIFTING OF TRAILER BODY

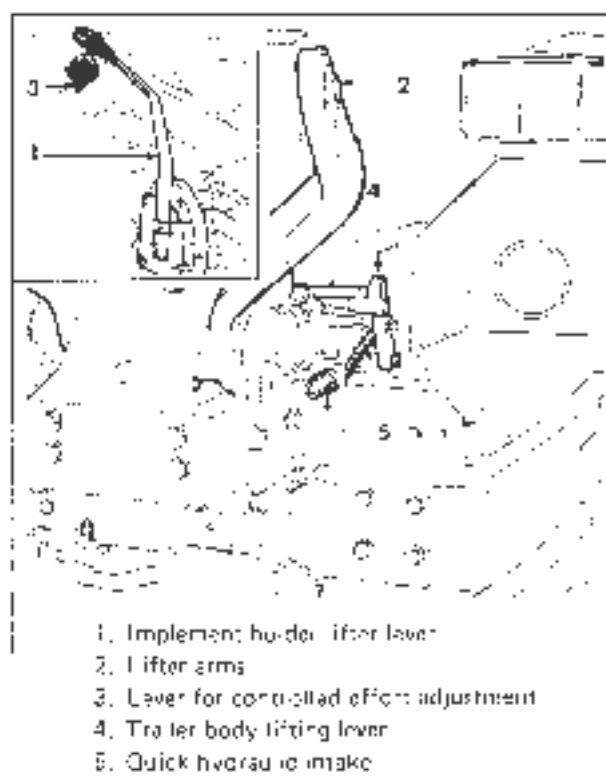
For body lifting follow procedure outlined (see fig. 16)

1. Actuate the hydraulic lifter control lever until arms (2) are fully raised
2. Make sure the controlled effort lever (3) is in "0" position of the graduated scale.
3. Lift the dump body of trailer by pushing FORWARD lever (4) of the control valve.

TOWING HOOK

The tractor is provided with a load towing hook. See fig. 3 for basic dimensions.

The towing hook can be located either under or above the power take-off location shown in fig. 16).



- 1. Implement holder/lifter lever
- 2. Lifter arms
- 3. Lever for controlled effort adjustment
- 4. Trailer body lifting lever
- 5. Quick hydraulic intake

Figure 16. Hydraulic lifting of trailer body



TRACK VARIATION

GENERAL

To meet the working requirements of the various implements and cultivations, all tractor models provide track variation.

ADJUSTMENT OF FRONT AND REAR TRACKS

The discs of rear and front wheels are adjustable. Position of wheels and relating tracks appears in fig. 17.

To dismantle wheels and discs, lift the tractor rear or front portion by means of a jack placed beneath the tractor body.

Note

In arranging for adjustment of front and rear tracks, make sure the tyre flaps be positioned in the forward movement rotation direction (shown by an arrow on tyre sidewall).

Front and rear wheels should be constantly symmetrical about the tractor longitudinal axis.

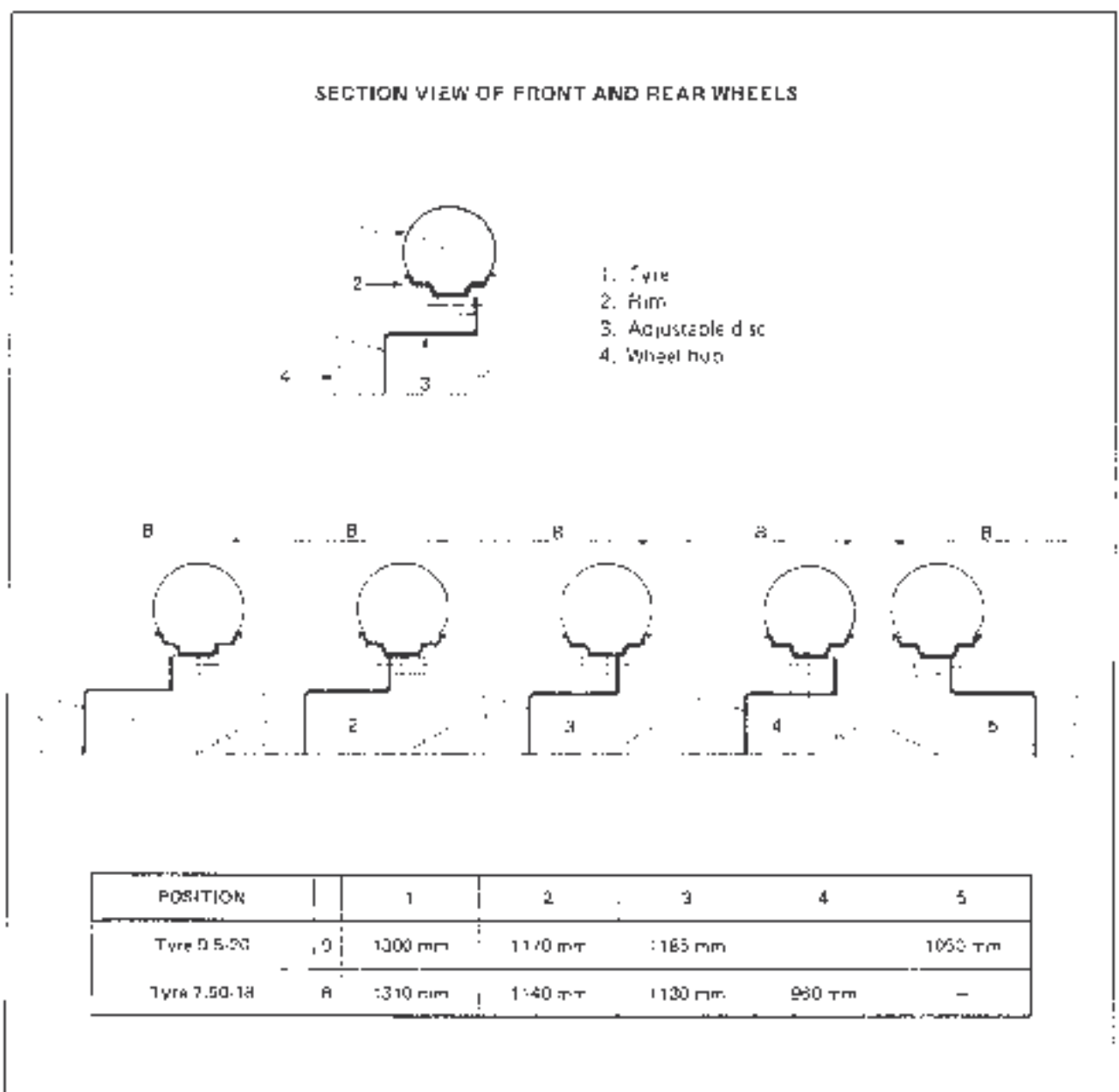


Figure 17. Variation of front and rear tracks



MAINTENANCE

LUBRICATION AND INSPECTIONS

Make prescribed operations as listed hereinafter at the intervals stated ("hours" are intended to be the actual working hours of the machine).

Lubricants to be used are quoted in table "SERVICING INSTRUCTIONS" at the beginning of present manual.

EVERY 8 HOURS (DAILY)

ENGINE: check oil level (when required, top it up).

AIR FILTER: under exceptional dusty conditions the filtering element should be cleaned. Procedure to be as follows.

- remove clips on collar (1) and remove cup (2).
- clean the filtering element (3) by means of gasoline or solvent. If the filtering screen is blocked or damaged, replacement will be necessary.
- clean cup (2) with gasoline and fill it with green oil (same oil as for engine) up to level (4).
- when a "cyclor" filter is installed, clean prefilter with gasoline or solvent.

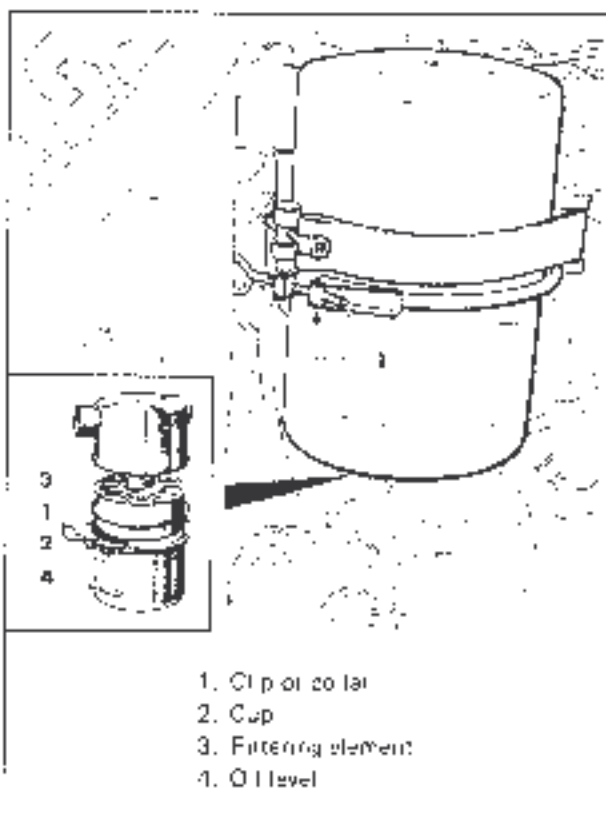


Figure 18. Engine air filter

POINTS TO BE GREASED (EVERY 25 HOURS)

- GENERAL PLATE:** grease 1 point
- STEERING JACK JOINT:** grease 2 points
- HYDRAULIC LIFTER ARMS:** grease 2 points
- UNIVERSAL JOINTS:** grease 4 points
- PIVOTS OF GEARSHIFT LEVER, SELECTOR LEVER, POWER TAKE-OFF LEVER:** grease 3 points
- PIVOTS OF BRAKE AND CLUTCH CONTROL PEDALS:** grease 2 points.

EVERY 60 HOURS (MAXIMUM INTERVAL)

AIR FILTER: cartridge should be cleaned in complying with the foregoing and oil be changed. Intervals for cleaning depend upon ambient conditions, however never exceed 60 hours.

EVERY 100 HOURS

ENGINE: change oil.

HYDRAULIC SYSTEM RESERVOIR: check the level. With implement holder and steering control jacks fully drawn back, oil level should be at approx. 20 mm from reservoir edge (see fig. 19).

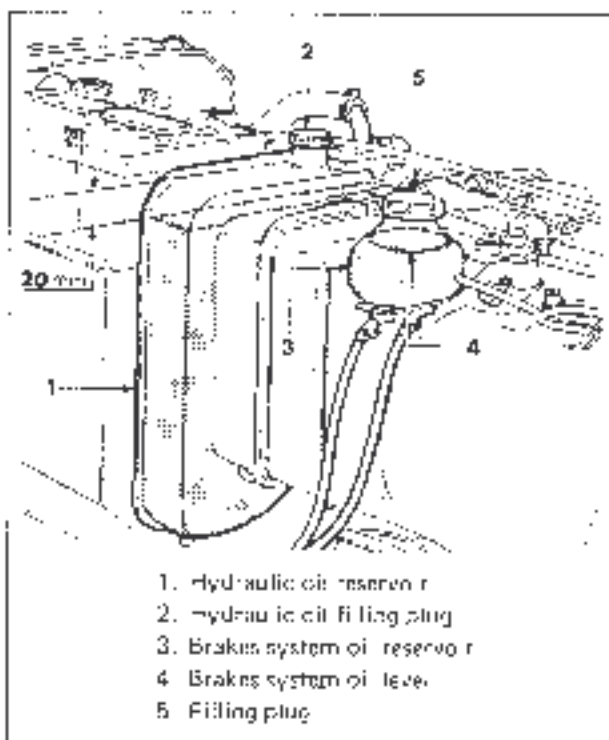


Figure 19. Oil level of hydraulic system and Brake system reservoirs



GEARBOX: check oil level (see fig. 20).
REAR AXLE BOX: check oil level (see fig. 21).
BRAKES SYSTEM RESERVOIR: check oil level (see fig. 19).

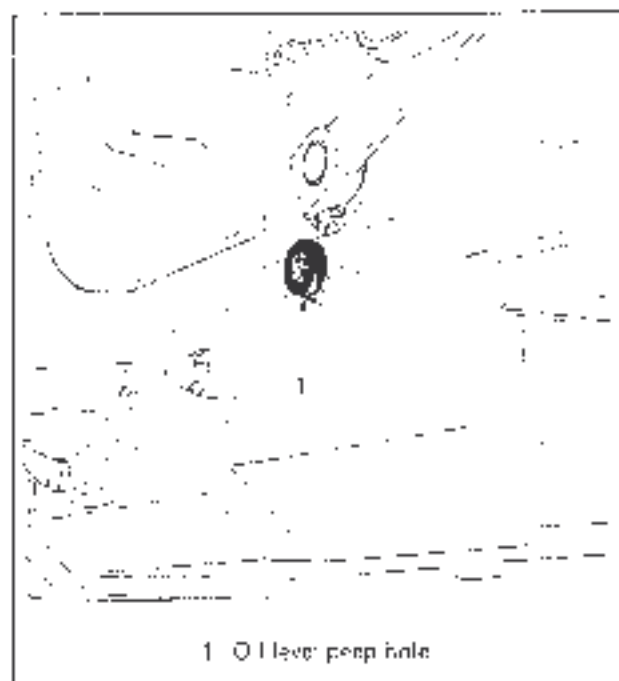


Figure 20. Oil level of gearbox

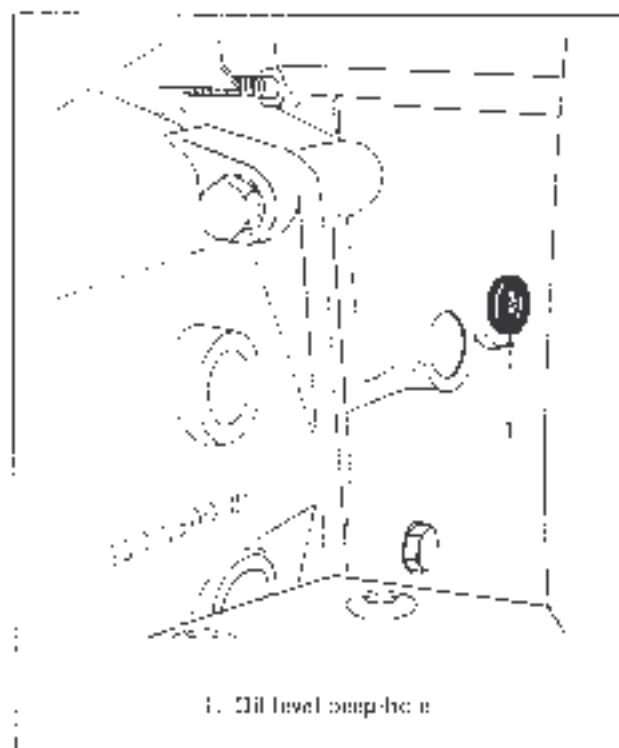


Figure 21. Oil level of rear axle box

EVERY 200 HOURS

FUEL SYSTEM: clean the filtering element, in following procedure outlined (see fig. 22).

- disjoin the outlet tube fitting;
- unloose bolt (1), remove cup (2) and filtering cartridge (3);
- clean filtering element (3) with gasoline or solvent and replace it if screen is found to be plugged or damaged;
- clean cup (2) with gasoline or Diesel fuel;
- re-assemble filtering element (3) in making sure seal (4) be in order and accurately located in groove.

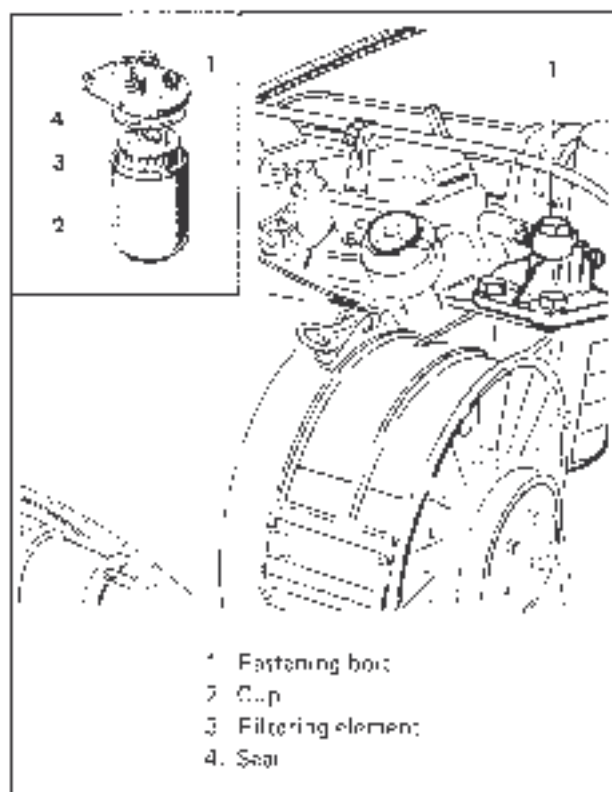


Figure 22. Fuel filter

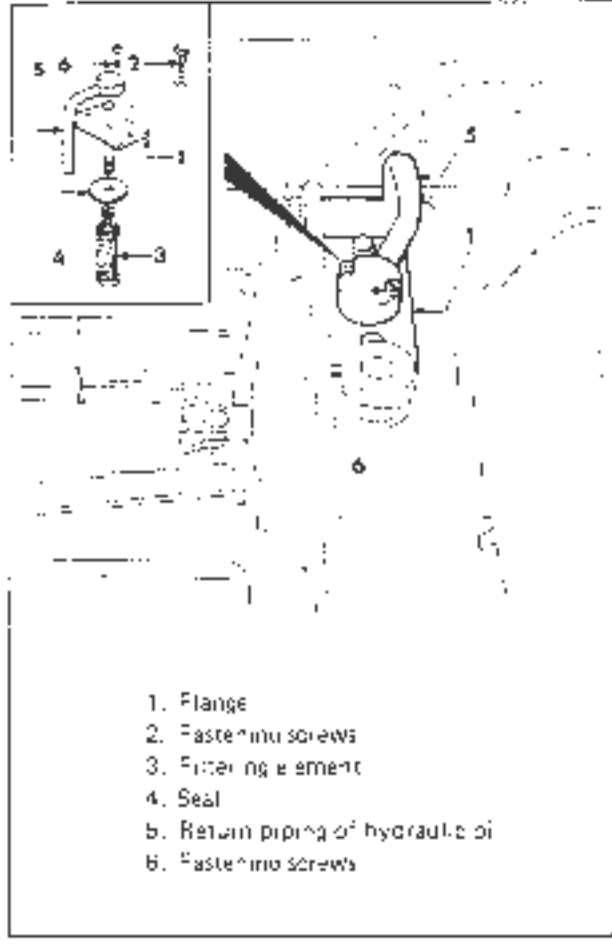
HYDRAULIC SYSTEM: replace filtering cartridge of hydraulic system reservoir. Operating sequence (see fig. 23):

- remove flange (1) and filter unloosing screws (2);
- screw off filtering cartridge (3) from flange (1);
- screw down the new cartridge onto the flange. Reinstall the flange and fasten it through screws (2).

BRAKES: verify efficiency of service brakes and parking brake. If necessary take action for controls in following procedure outlined later in this booklet.



CLUTCH: verify efficiency of control system. If necessary take action for adjustment in following procedure outlined later in this booklet:



- 1. Flange
- 2. Fastening screws
- 3. Filtering element
- 4. Seal
- 5. Return piping of hydraulic oil
- 6. Fastening screws

Figure 23. Adjustment of the differential locking control

EVERY 500 HOURS

HYDRAULIC SYSTEM: change oil (see fig. 10)

GEARBOX: change oil (see fig. 24).

REAR AXLE BOX: change oil (see fig. 25).



Figure 24. Oil filling plug for gearbox

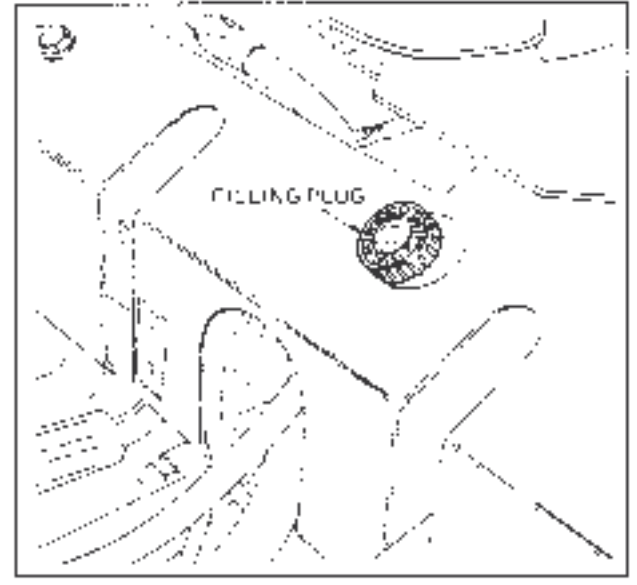


Figure 25. Oil filling plug for rear axle box



INSPECTIONS AND ADJUSTMENTS (GENERAL)

Information and specifications given here below refer to adjustment operation to be carried out on "Ferrari 85" tractors exclusively.

Directions for any overhaul and repairs are contained in a purpose issued publication.

BRAKES

Service brakes

1. **SYSTEM INSPECTION:** if the braking action is found to be delayed, bleed the system through bleed valves located on the brake cylinders (fig. 26, item 2). When bleeding is complete top off oil level in reservoir by adding new oil.

WARNING

To bleed air from the braking system, disconnect pipe (5) from the pump fitting and have air exhausted in the rear circuit; connect pipe (5) again and take action for bleeding the front circuit.

2. **BRAKES ADJUSTMENT:** if the idle stroke of pedals is found to be excessive, adjust the brake shoes as follows (see fig. 26):

- turn screw (3) to cause internal cams to get in touch with jaws;
- verify the brake pedal stroke and make sure that wheels are turning free;
- actuate the brake pedal when machine is running, this will allow the brake jaws to self-center;
- check adjustment of the control cables of the parking brake; if necessary follow procedure outlined.

Parking brake (see fig. 26)

If the braking action is found to be poor, adjust control cables through nuts (8) fitted on control lever of the parking or emergency brake.

Note

If braking shoes are found to be worn out, the internal lever of the hand brake is allowed to come in touch with hubs. This will eliminate the braking action. Replacement of shoes is then necessary.

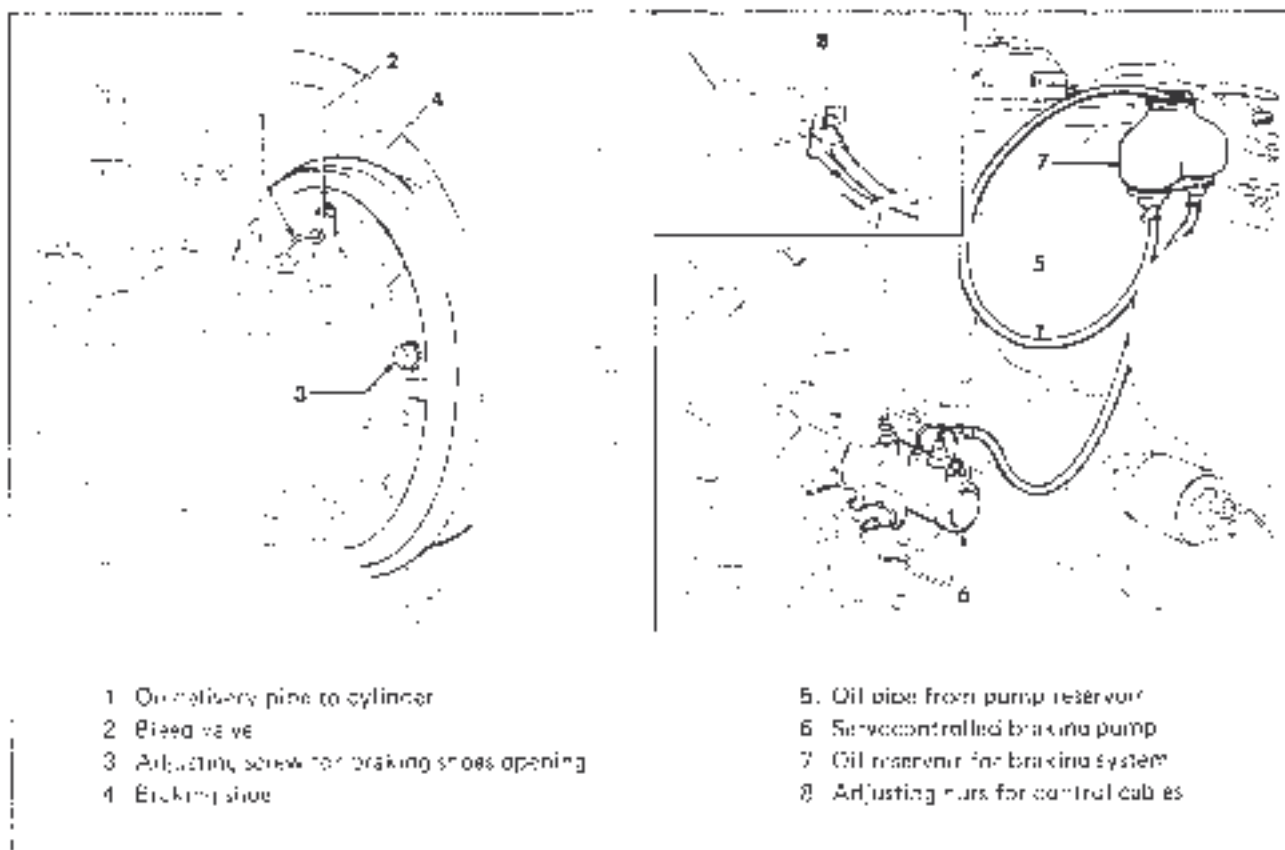


Figure 26. Bleeding of brake system and brake adjustment



CLUTCH

1. The clutch pedal should make an idle stroke of approx. 15 mm prior to obtaining disengagement of clutch.
2. If the idle stroke is insufficient (clutch slippage) or excessive (disengagement is not complete) adjust the releasing control rod (see fig. 27) through adjusting nut (2) until an idle stroke of 15 mm is obtained.
3. In the event of unsuccessful adjusting procedure, have the clutch disassembled and inspected in a specialized workshop.

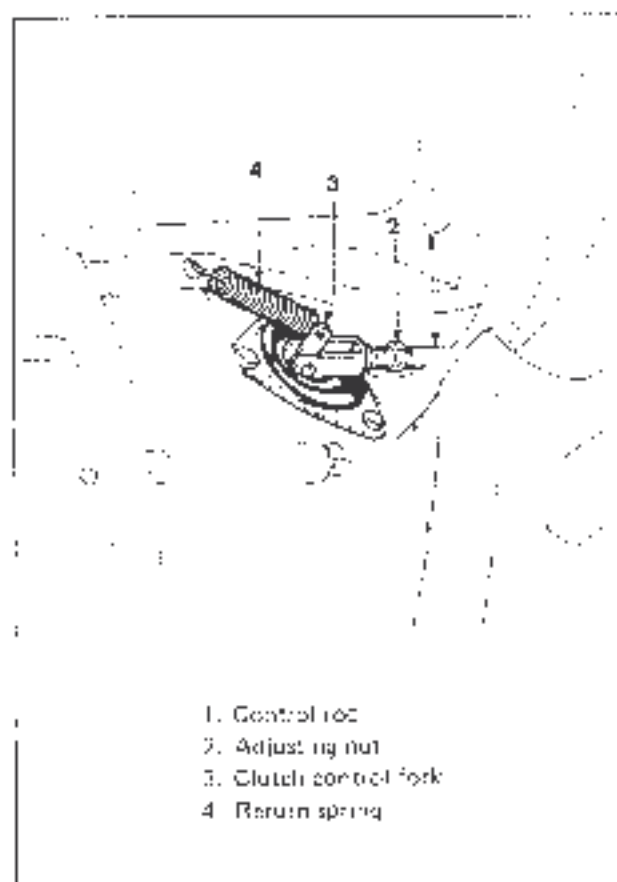


Figure 27. Clutch adjustment

LOCKING OF THE DIFFERENTIALS

Periodically make sure the differential locking system is properly adjusted. A correct adjustment is achieved by following procedure outlined (see fig. 28).

1. Make sure that equalizer springs (1) are 2 mm approx. from spring retainer rings (2). Control lever to be in "LOCKED" position.

2. If adjustment is found to be improper, proceed through the purpose-fitted nuts (3).

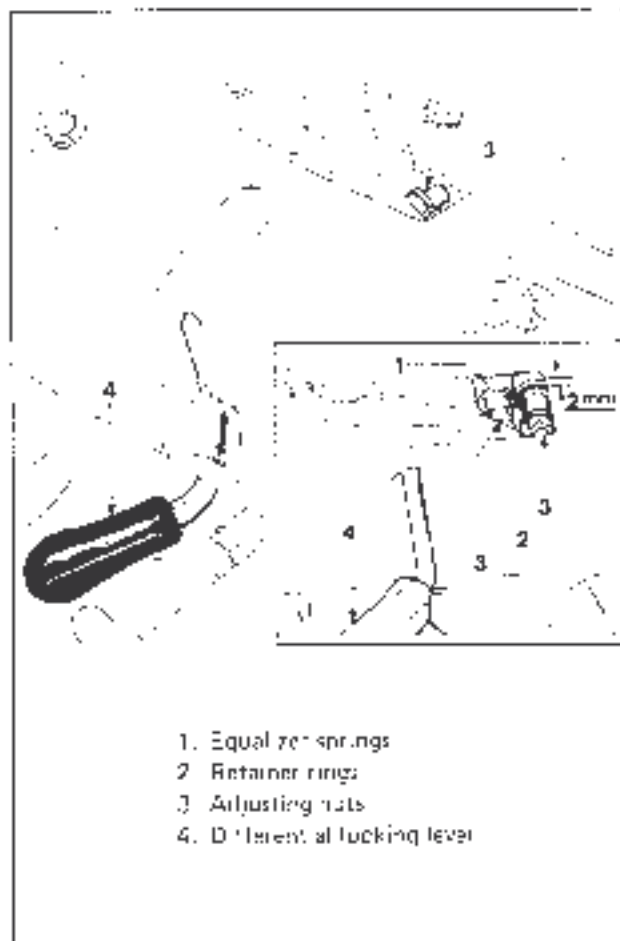


Figure 28. Differential locking adjustment

HYDRAULIC SYSTEM

GENERAL

A schematic diagram of the hydraulic system is shown in fig. 29.

In the event of unsatisfactory or improper lifting of implements despite of smooth operation of the engine, the same procedure as described in pages concerning the hydraulic system maintenance is to be followed.

ELECTRICAL EQUIPMENT

Tractor circuits are provided with protection fuses coated under the engine-hood (see fig. 30).

The elementary wiring diagram including appliances supplied on request, is shown in fig. 31.

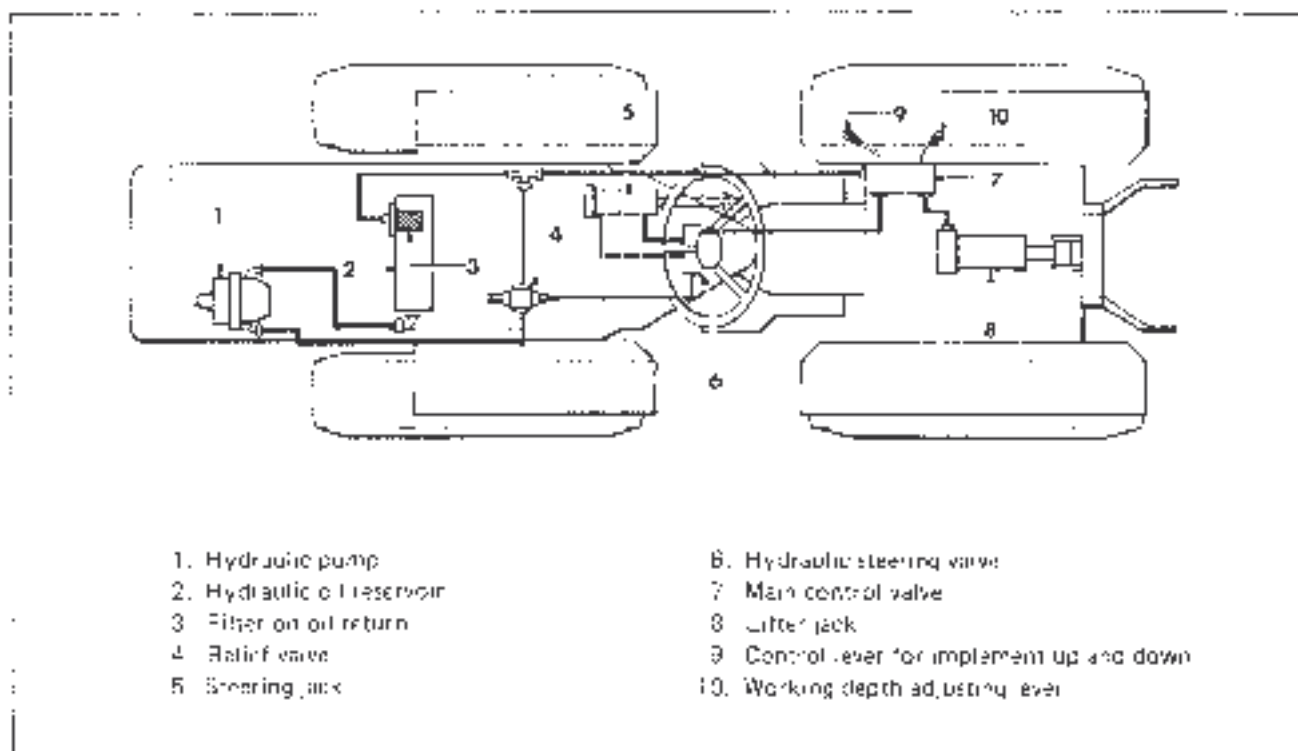


Figure 29. Hydraulic system diagram

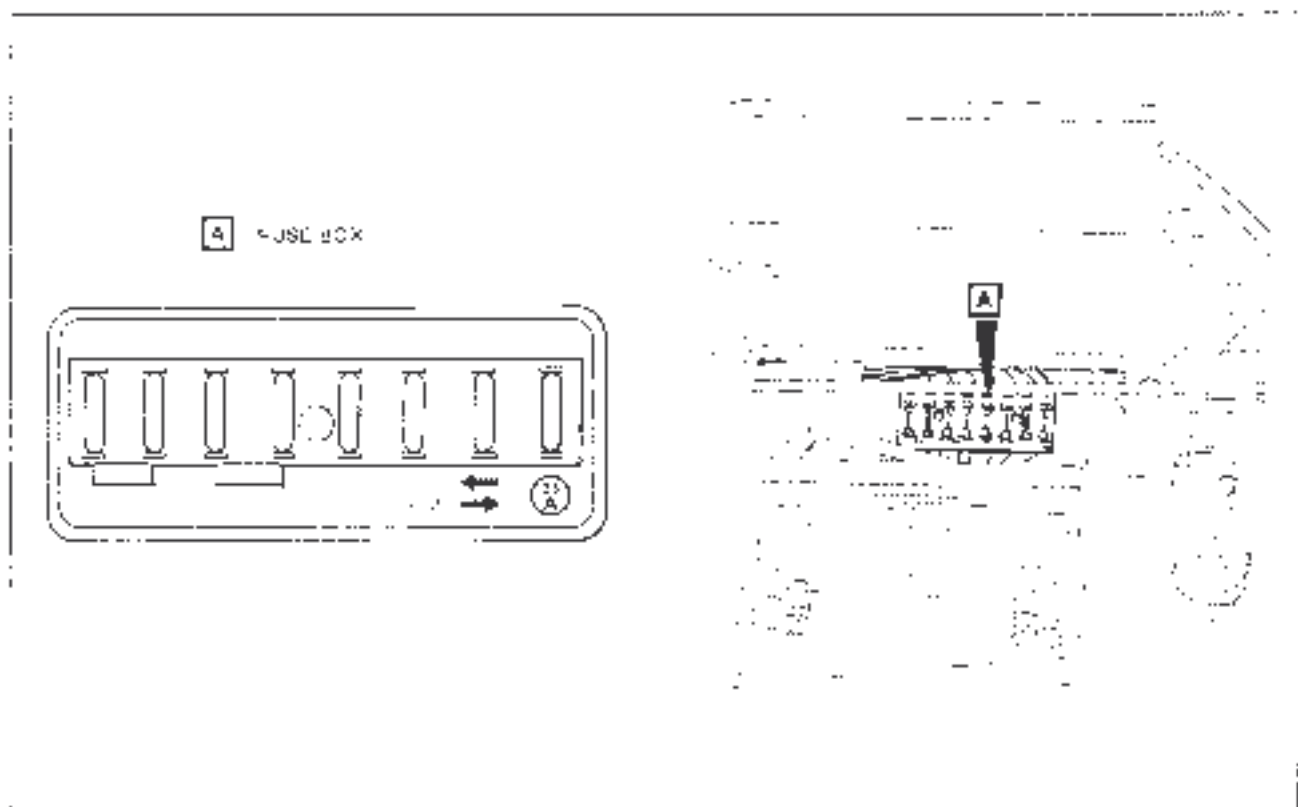
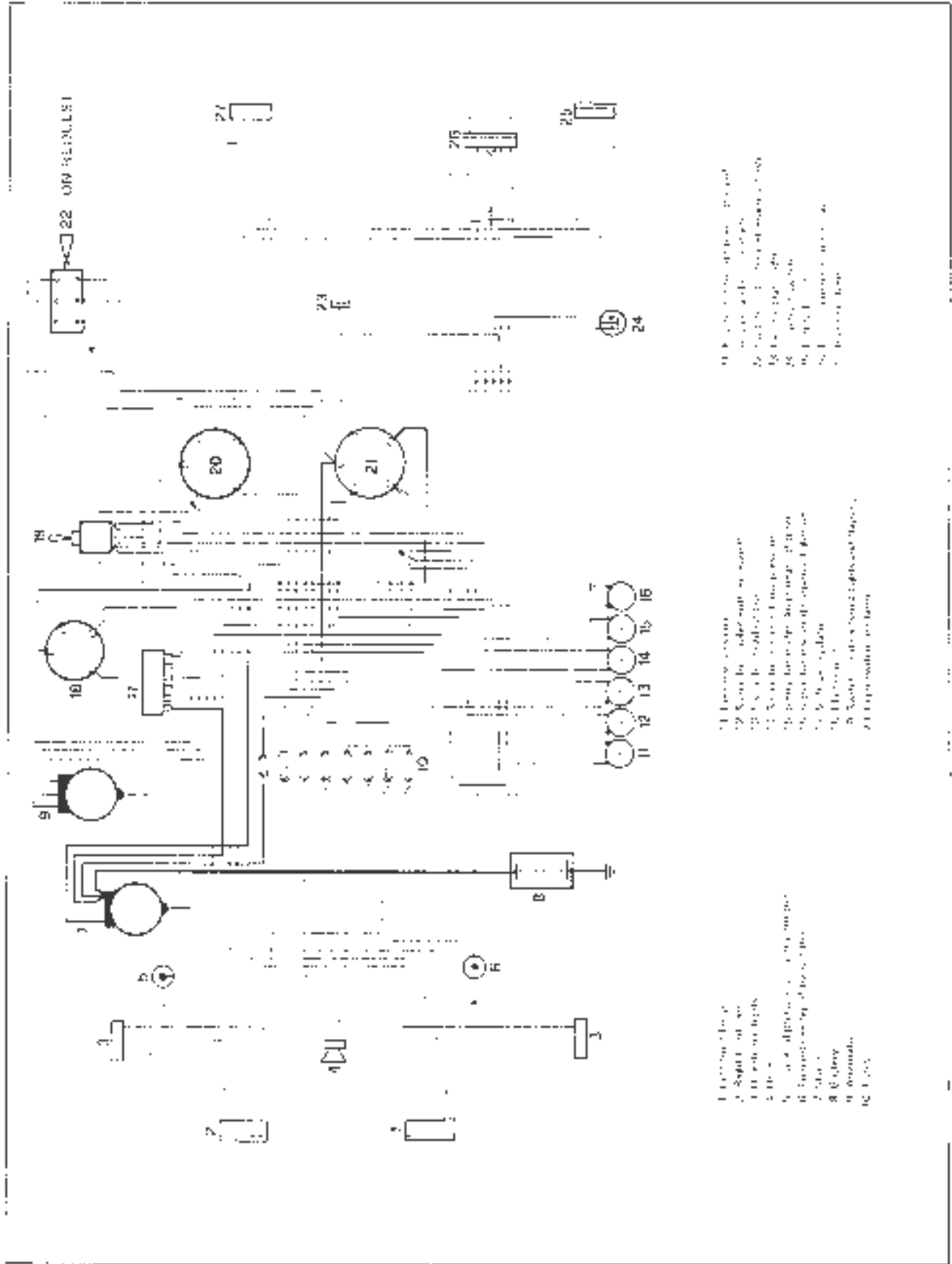


Figure 30. Fuse-box of electrical equipment



- Legend:**
- 1 Battery
 - 2 Fuse block
 - 3 Fuse
 - 4 Generator
 - 5 Voltage regulator
 - 6 Distributor
 - 7 Coil
 - 8 Spark plug
 - 9 Horn
 - 10 Bell
 - 11-16 Indicator lights
 - 17 Relay
 - 18 Headlight
 - 19 Tail light
 - 20 Relay
 - 21 Horn relay
 - 22 Horn
 - 23 Bell relay
 - 24 Bell
 - 25 Fuse
 - 26 Fuse block
 - 27 Fuse
 - 28 Fuse block
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 - 48 Fuse block
 - 49 Fuse
 - 50 Fuse block

Figure 31. Electrical equipment



HYDRAULIC SYSTEM

SYSTEM INSPECTION

GENERAL

All necessary operations for an accurate inspection are described here below. Overhaul of the hydraulic system will ensure it is in the ideal working order. Recommended steps for setting valves are outlined as well. Strictly follow prescribed procedure.

CHECKING OF OPERATING PRESSURE

Preliminary operations

- Install a pressure gauge with 250 kgf/cm² end-of-scale (minimum) in the hydraulic pump delivery fitting (see fig. 32).

Note

Location of hydraulic pump on engine body may be different from that indicated in fig. 32. Location may vary according to the engine installed on tractor.

- Start the tractor engine and maintain it operating at 2000 RPM approx.

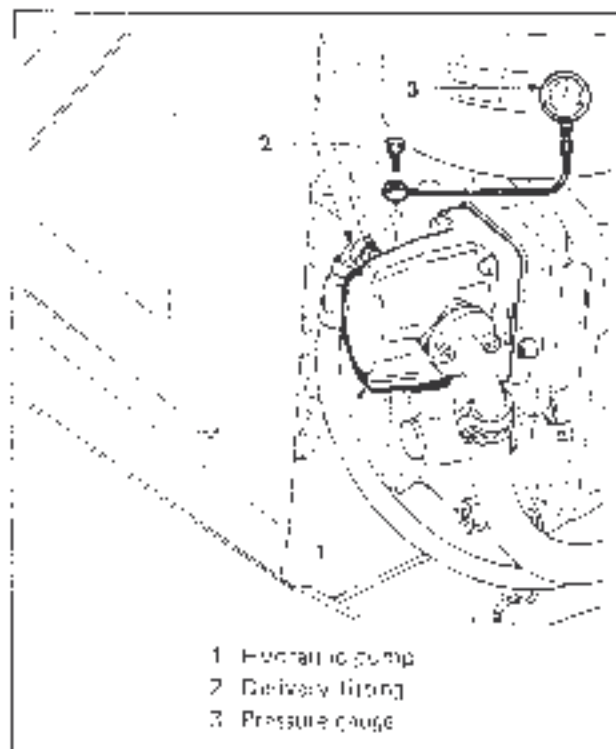


Figure 32. Installation of pressure gauge on the hydraulic pump delivery.

STEERING SYSTEM OPERATING PRESSURE

(see fig. 33 and fig. 34)

- Through the steering wheel steer tractor wheels to right or left as far as practicable (steering jack to be fully extended or retracted).
- Make sure pressure gauge reading is 100 to 110 kgf/cm². If reading is different, adjust setting through valve (fig. 33 or fig. 34, item 1) of the hydraulic power steering unit, by screwing on or off adjusting screw (2) after removing valve cap (3).

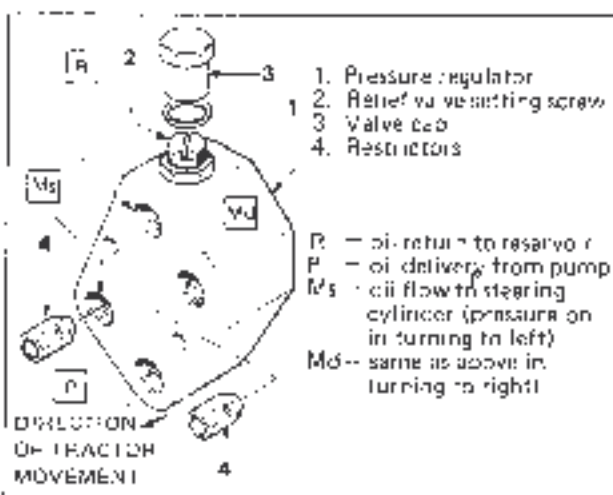


Figure 33. Setting of the hydraulic power steering valve (example A).

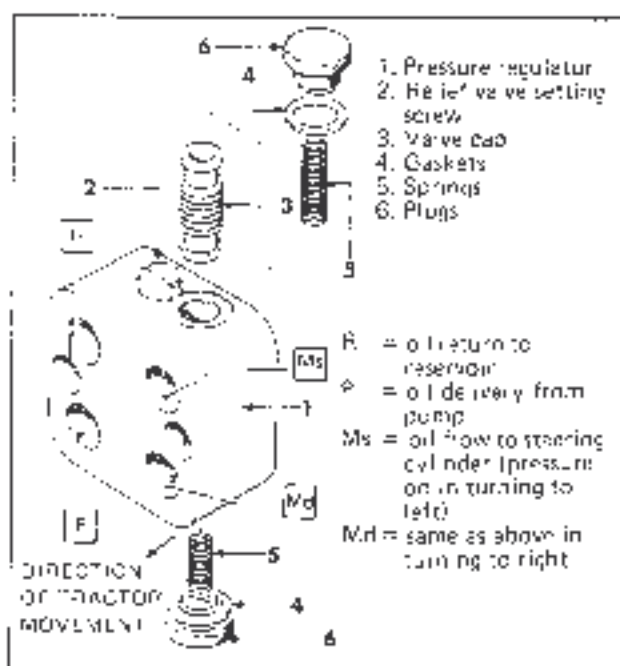


Figure 34. Setting of the hydraulic power steering valve (example B).



OPERATING PRESSURE OF HYDRAULIC LIFTER (see fig. 35)

- Place lever (2) in the "LIFT" position and lever (1) in "C" on the graduated scale.
- Fully depress lever (3) to direct on-down in the figure and hold it in place. Make sure that pressure gauge reads 100 to 120 kg/sq.cm.
- If not, make sure that no evident oil leakage occurs in the main control valve, remove cover (4) and clean valves located beneath.

CAUTION

Do not tamper with adjusting nut (5) on main control valve.
ADJUSTMENT HAS BEEN ACCOMPLISHED BY TRACTOR MANUFACTURER AT TIME OF INSTALLATION.

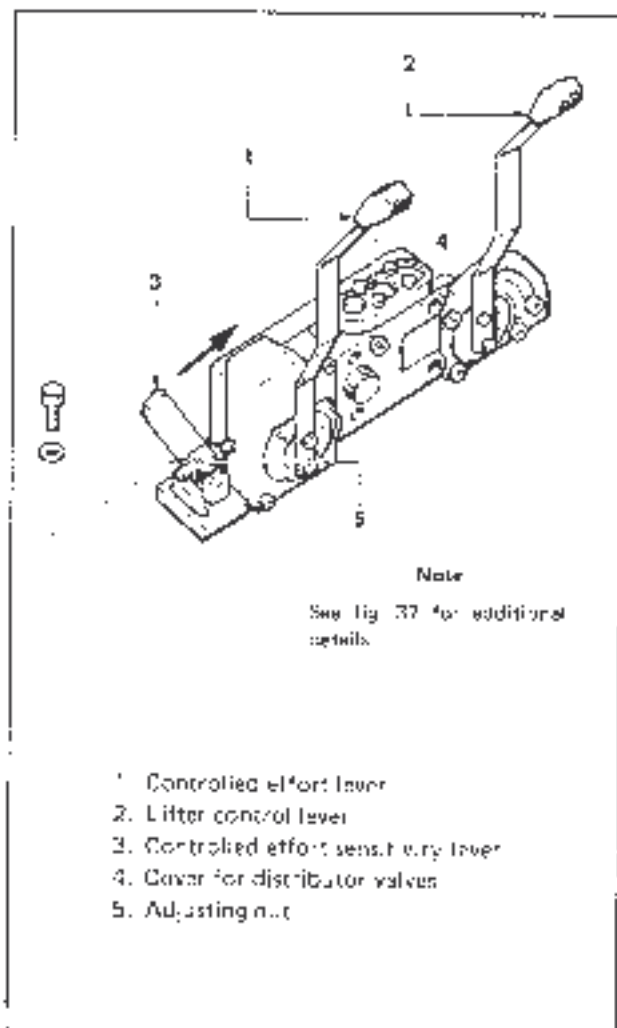


Figure 35. Check of hydraulic lifter operating pressure

RELIEF VALVE OPERATING PRESSURE

- Fully depress lever (fig. 35, item 3) to direction shown and hold it in place.
- Steer wheels to right or left as far as practicable (jack to be all the way extended or retracted). Make sure that pressure gauge reading is 130 to 140 kg/sq.cm.
- If pressure is found to be lower, set properly the hydraulic system relief valve (see fig. 36) in screwing on or screwing off adjusting nut with a screw-driver. Remove cap prior to taking action.

WARNING

Operating pressure in the hydraulic system never to exceed 170 kg/sq.cm

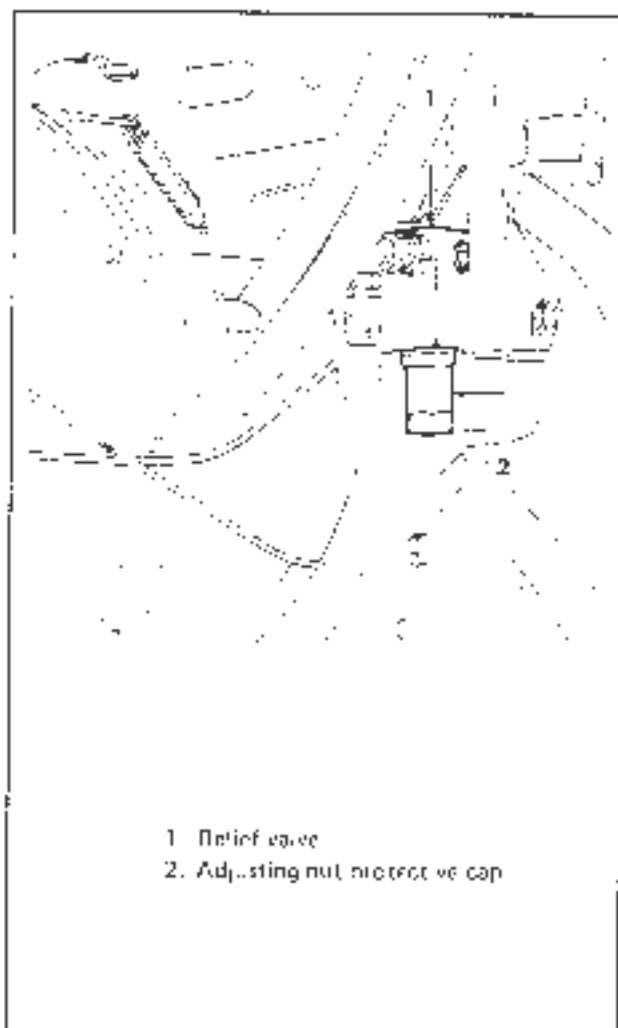


Figure 36. Setting of the hydraulic system relief valve



TROUBLE SHOOTING

HYDRAULIC LIFTER

(see fig. 37)

Note

Any failure in lifter operation is generally caused by improper or contaminated oil. When changing or refilling oil, rig duty adheres to directions furnished by manufacturer and exercise good cleaning and house-keeping practices.

TROUBLE	PROBABLE CAUSE AND REMEDY
a. Lifter will not come up (even at load)	<ol style="list-style-type: none"> 1. Insufficient oil level. Fill oil reservoir. 2. Jamming pilot valve (14) caused by impurities contained in oil. Unscrew the four screws holding cover (26), unlock valve and clean. To prevent trouble from taking place again, carefully clean oil filter cartridge on return (see fig. 23).
b. Lifter does not lower. (This may be encountered in the case of a new apparatus after a fairly extended inactivity from final test).	<ol style="list-style-type: none"> 1. Jamming of shaft (3). Disassemble cover (22), place the control lever in down position. Unlock shaft gently tapping on.
c. Jumping of lifter in coming up.	<ol style="list-style-type: none"> 1. Insufficient oil level. Fill oil reservoir. 2. Air drawn into the suction line. Check connectors for proper tightening and replace packings. Bleed tubing by squeezing. 3. Air drawn through the pump oil seal. Replace oil seal.
d. Lifter does not remain in place, it rises or falls with working action. When engine is off, load creeps down.	<ol style="list-style-type: none"> 1. Leaking check valve (16). Take off cover (25), remove valve and clean valve seat. If seat and valve are found to be in good conditions and trouble is still encountered, change or filter oil and clean cartridge. 2. Oil seepage through piston seal or seal rings of cylinder cap, or through seal ring located between the body of the distributor block and the housing. Replace seal.
e. Poor lifting power. Anomalous overheating of the system.	<ol style="list-style-type: none"> 1. Pump low efficiency. Overhaul pump or replace it. 2. Improper setting of relief valve (8, 12). Remove cover (26) and replace spring. 3. Valve plunger (9) and seat (10) are out of order and allow oil seepage. Replace the valve. 4. Impurity on the pilot valve seat (14). Take off cover (26), remove valve and clean valve seat. 5. Pilot valve seat worn out (14). Overhaul distributor block.
f. When lifter arms are fully "UP", relief valve cavitates.	<ol style="list-style-type: none"> 1. Jamming of shaft (3). Disassemble cover (22), place control lever in down position and release shaft by tapping. 2. Improper setting of the relief valve. (stop Lifter arms (fig. 38, detail 11, through cover (2); adjust control (3) with a screwdriver (4) and engine speed rate is caused to increase hydraulic circuit not under pressure any more).
g. Escape or leaked oil through the breather plug.	<ol style="list-style-type: none"> 1. Oil level too high or too low. Top off oil to recommended level. 2. Air drawn through the suction line. Tighten the fittings, inspect welds, replace gasket. 3. Air drawn through pump oil seal. Replace oil seal.

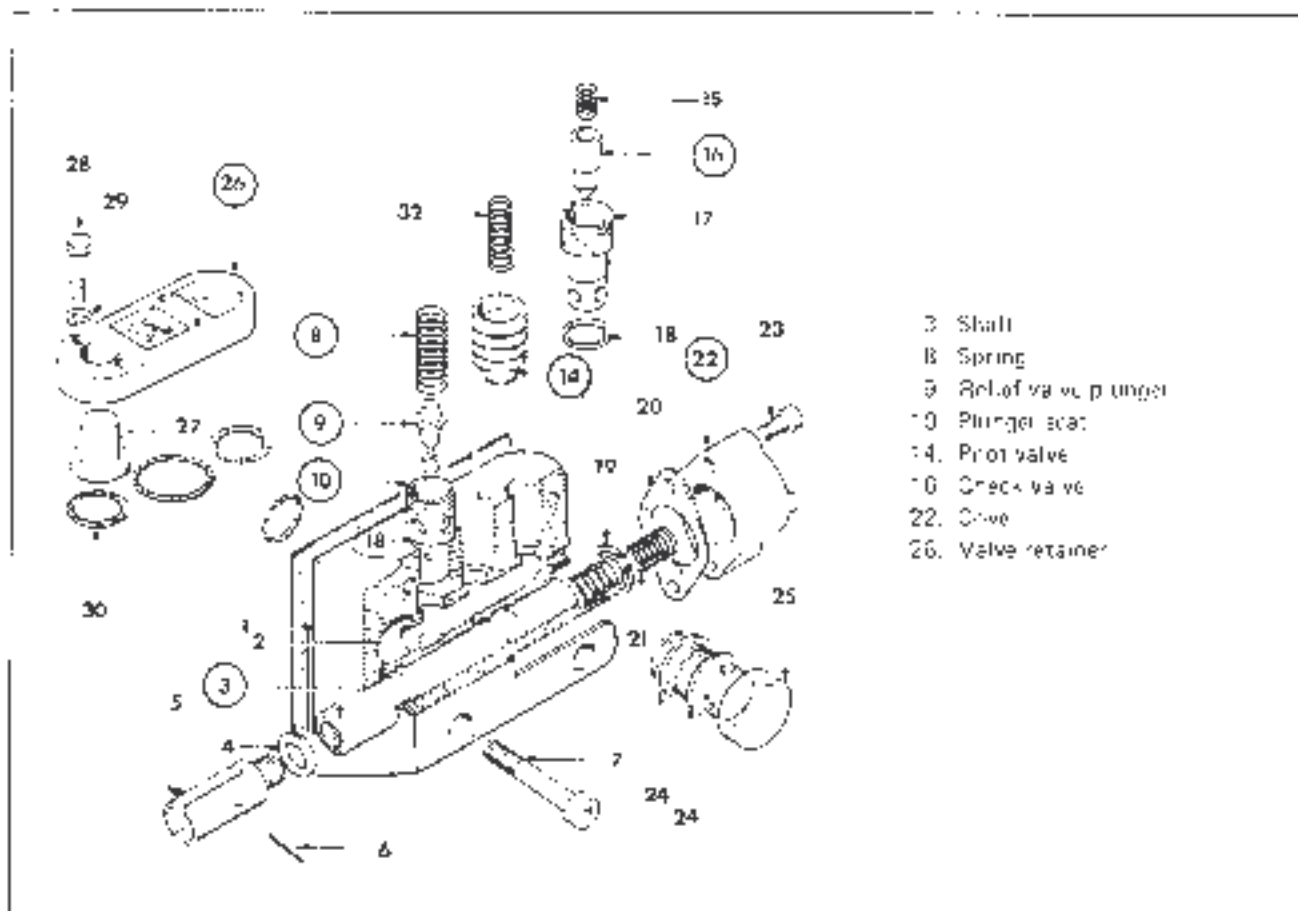


Figure 37. Hydraulic lifter control valve

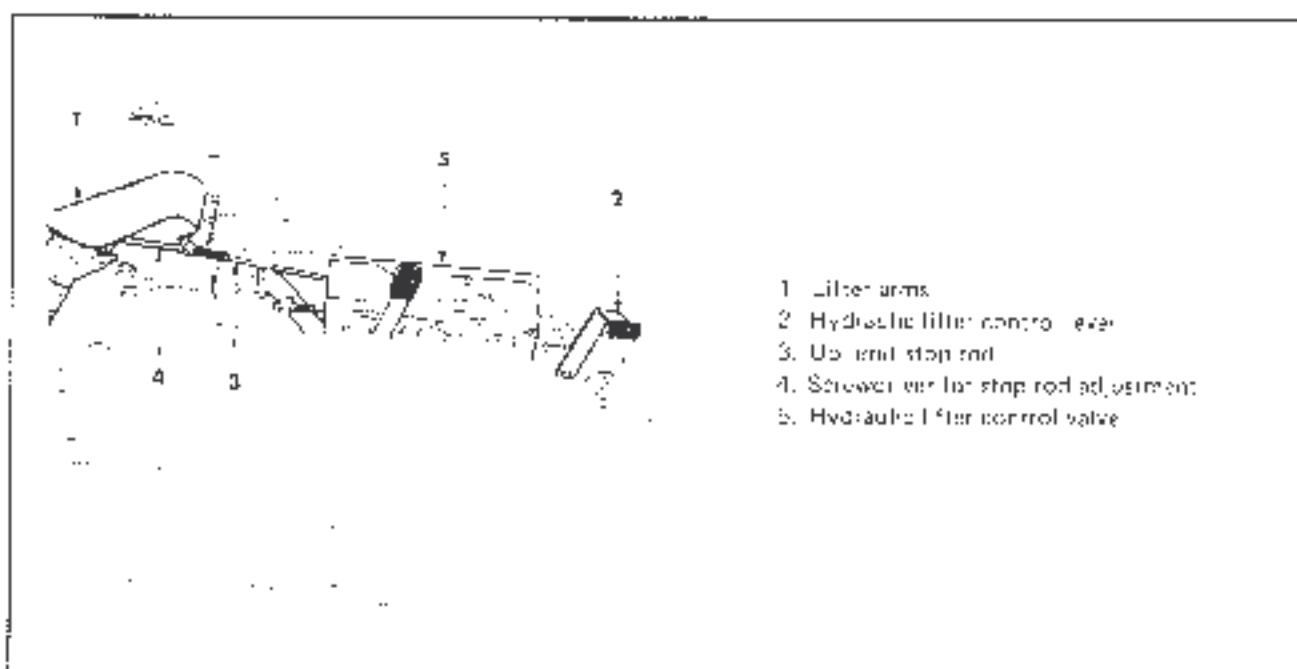


Figure 38. Adjustment of LIP limit stop rod



HYDRAULIC STEERING

THOUBLE	PROBABLE CAUSE AND REMEDY
a. Incorrect steering movement	<ol style="list-style-type: none">1. Air in the steering jacks. Bleed the system.2. Jack packings are faulty. Replace all jack seals3. Hydraulic steering valve dirty. Where valve of fig. 33 is fitted, disassemble and clean restrictors. Where valve of fig. 34 is provided, disassemble and clean valve piston and verify that springs are not broken.
b. Excessive force required to rotate the steering wheel.	<ol style="list-style-type: none">1. Differential locking engaged. Release it.2. Improper adjustment of lifter-in-stop. Lower the filter. If trouble is not solved, follow suggestions given under section "1" concerning trouble shooting of hydraulic filter.

CAUTION

In the event the above described inspection as well as circuit cleaning and replacement of worn out packings be not sufficient to solve the trouble encountered, HAVE THE HYDRAULIC POWER STEERING UNIT REPLACED WITHOUT DISMANTLING ANY HYDRAULIC POWER STEERING UNIT REPAIR SHALL BE MADE EXCLUSIVELY BY MANUFACTURER OR AUTHORIZED PERSONNEL THE MANUFACTURER DISCLAIMS ALL LIABILITY OR REQUEST OF WARRANTY IF HYDRAULIC POWER STEERING UNIT APPEARS TO BE TAMPERED WITH.

HOW TO ORDER SPARE PARTS

NOTE

When ordering, always state:

- TYPE AND MODEL OF THE MACHINE
- SERIAL NUMBER OF THE MACHINE
- CODE NUMBER OF THE PART
- REQUIRED QUANTITY
- REQUIRED DELIVERY TERMS
- ADDRESS OF THE ORDERING OFFICE

HOW TO IDENTIFY A PART

Identify the piece required on the figure (the whole machine has been split into well defined units, as shown by the index of the figure).

- Read the code number. If the said number does not have any symbol alongside it, it is valid for all machines listed on the top right of the figure. If the code number has one or more symbols alongside it, or if a piece has more than one number and symbols alongside them, the right one must be identified by reading the meaning of the symbols.

For better machine-running, greater security and guarantee, always ask for ORIGINAL SPARE PARTS.

SYMBOLS USED IN THE SPARE PARTS CATALOGUE

(The numbers mentioned are only an indication)

— ROUND etc.

Indications of validity for type of machine

Example

The part so indicated is valid only for the machine type "1200"

— SQUARE etc.

Indications of validity of the individual part

Example

The part so indicated is valid for machines up to Serial N° 585000

The part so indicated is valid for machines from Serial N° 585002 onwards

TRIANGULAR etc.

Indications of validity for the subassemblies indicated alongside TRIANGULAR SYMBOLS are also linked to the machine type

Subassembly symbols

ENGINES

Ex. 42000P It indicates an engine type 42000P

ROTAVATORS WITH FIXED HOOD

Ex. 100 It indicates a rotavator with 100 cm fixed hood

ROTAVATOR WITH ADJUSTABLE HOOD

Ex. 75 It indicates a rotavator with 75 cm adjustable hood

ADJUSTABLE DISC WHEEL

Ex. 5 00-12 Shows the adjustable disc wheel type 5 00-12

FIXED DISC WHEEL

Ex. 6 5-15 Shows the fixed disc wheel type 6 5-15

LENGTH TO BE SHOWN

Ex. 100 Shows that the item is long 100 mm

PUMPS

Ex. 5.985 It indicates a hydraulic pump type 5.985

ELECTRIC SYSTEM

Ex. EXPORT It indicates an electrical system for export type machines

JOINT

Ex. 1064 It indicates a joint type 1064

CUTTING BARS

Ex. 125 It indicates a cutting bar 125 cm wide

CUTTING BAR TEETH

Ex. 36 It indicates teeth with centre distance 36 mm

TYPE OF MACHINE

Ex. 99 It is valid for machine model 99

— ASTERISKS

Indications of validity for standard parts, parts on request, parts made by another manufacturer

A.R. The part thus marked is supplied only at Customer's request

STANDARD The part thus indicated is standard make or assembly

Ditta S.p.A. The part thus marked is valid only for the Customer indicated

— ABBREVIATIONS

- Left
 - Right

- SEE NEXT PAGE

SPARE PARTS CATALOGUE

AGRICULTURAL TRACTOR MOD. 85

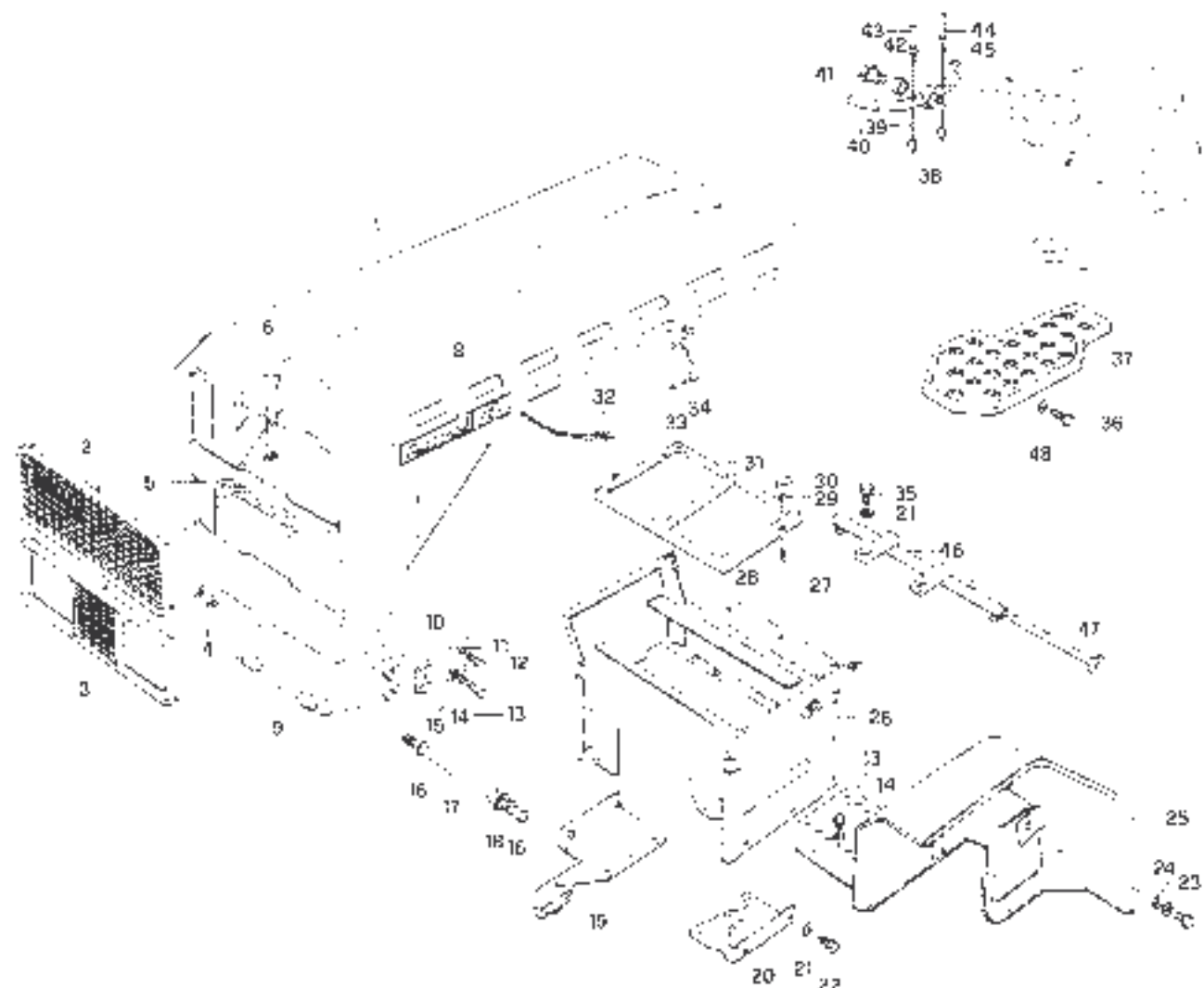
INDEX OF ILLUSTRATIONS

Fig. C1009A-1	Body (1st part)
Fig. C1009B-1	Body (2nd part)
Fig. C1107	Clutch and control
Fig. C1109A	Double clutch (1st part)
Fig. C1109B	Double clutch (2nd part)
Fig. C1206	Gear case
Fig. C1306A	Gear box (1st part) (For all machines)
Fig. C1306B	Gear box (2nd part) (Straight - tooth gears)
Fig. C1306C	Gear box (2nd part) (Helical gears)
Fig. C1306D	Gear box (3rd part) (Straight - tooth gears)
Fig. C1306F	Gear box (3rd part) (Helical gears)
Fig. C1407A	Gear box shifting mechanism (1st part)
Fig. C1407B	Gear box shifting mechanism (2nd part)
Fig. C1511	Differential, front
Fig. C1605-1	Intermediate housing
Fig. C1706A	Rear axle housing
Fig. C1706B	Rear axle, gears and control
Fig. C1908	Rear axle, shaft and differential
Fig. C2107A-1	Front hydraulic brakes
Fig. C2107B-1	Rear hydraulic brakes
Fig. C2206A	Implement after - Two point hitch
Fig. C2206B	Implement after - Three point hitch
Fig. C2605A	Electrical system (1st part)
Fig. C2605B	Electrical system (2nd part)
Fig. C2807	Accessories
Fig. C2903	Wheels
Fig. F1103-2	Rotary cultivator, drive shaft
Fig. F1301A-1	Rotary cultivator, case and components
Fig. F1301C-2	Rotary cultivator, fixed hood

HYDRAULIC EQUIPMENT

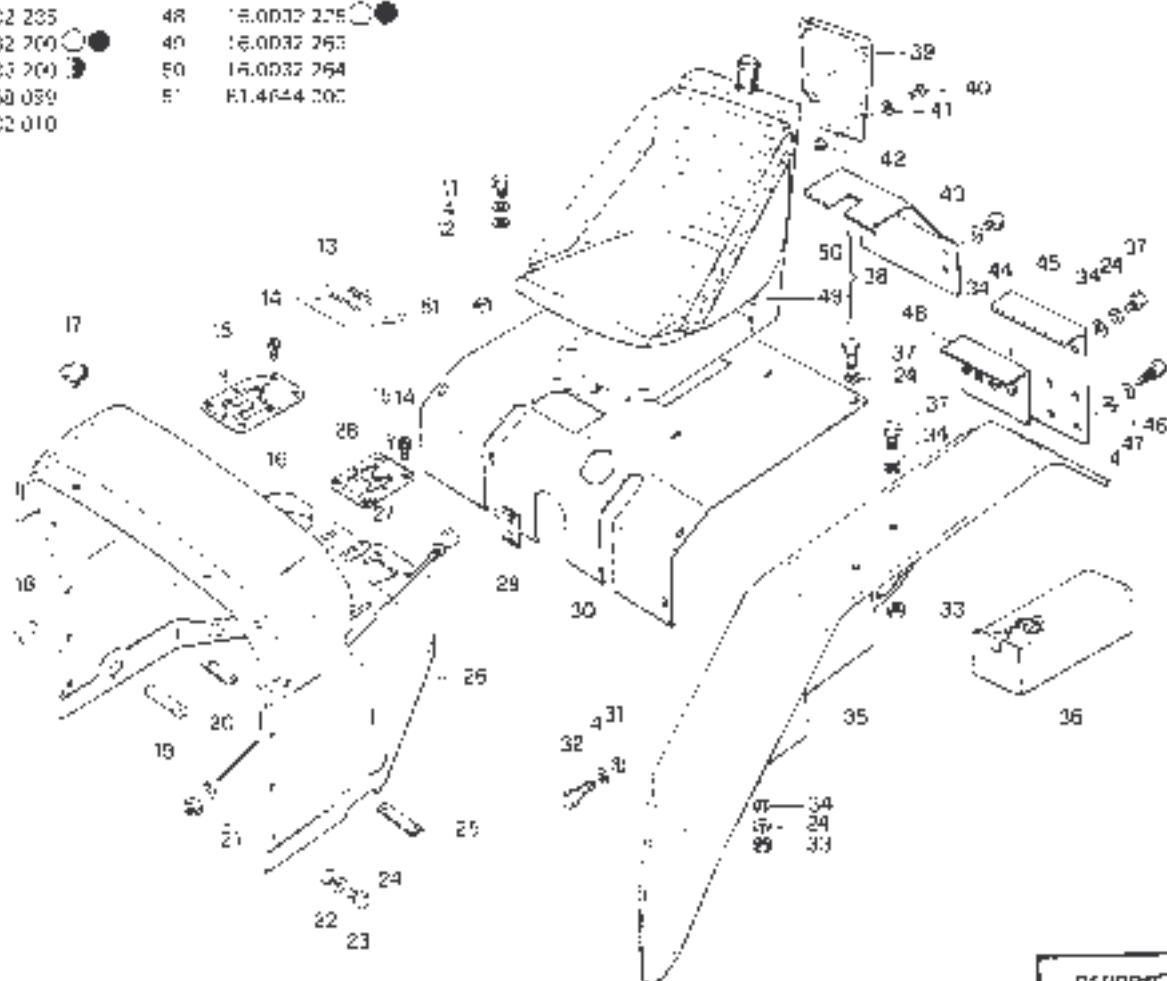
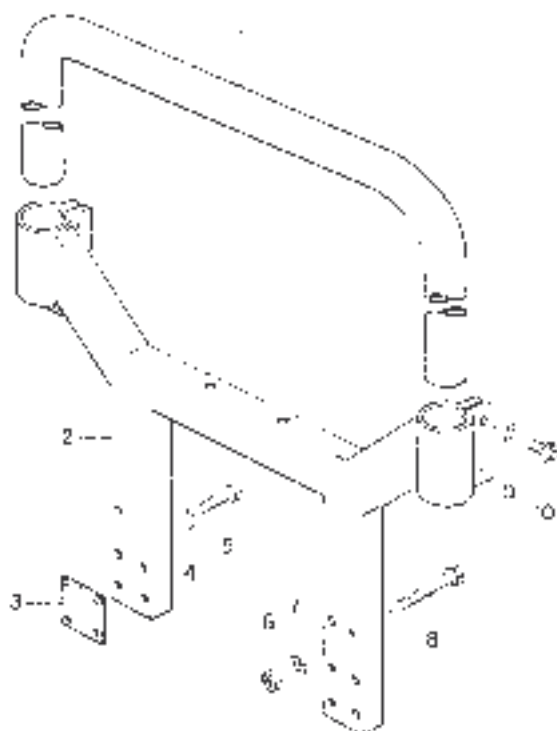
Refer to figures H00007 through H00533

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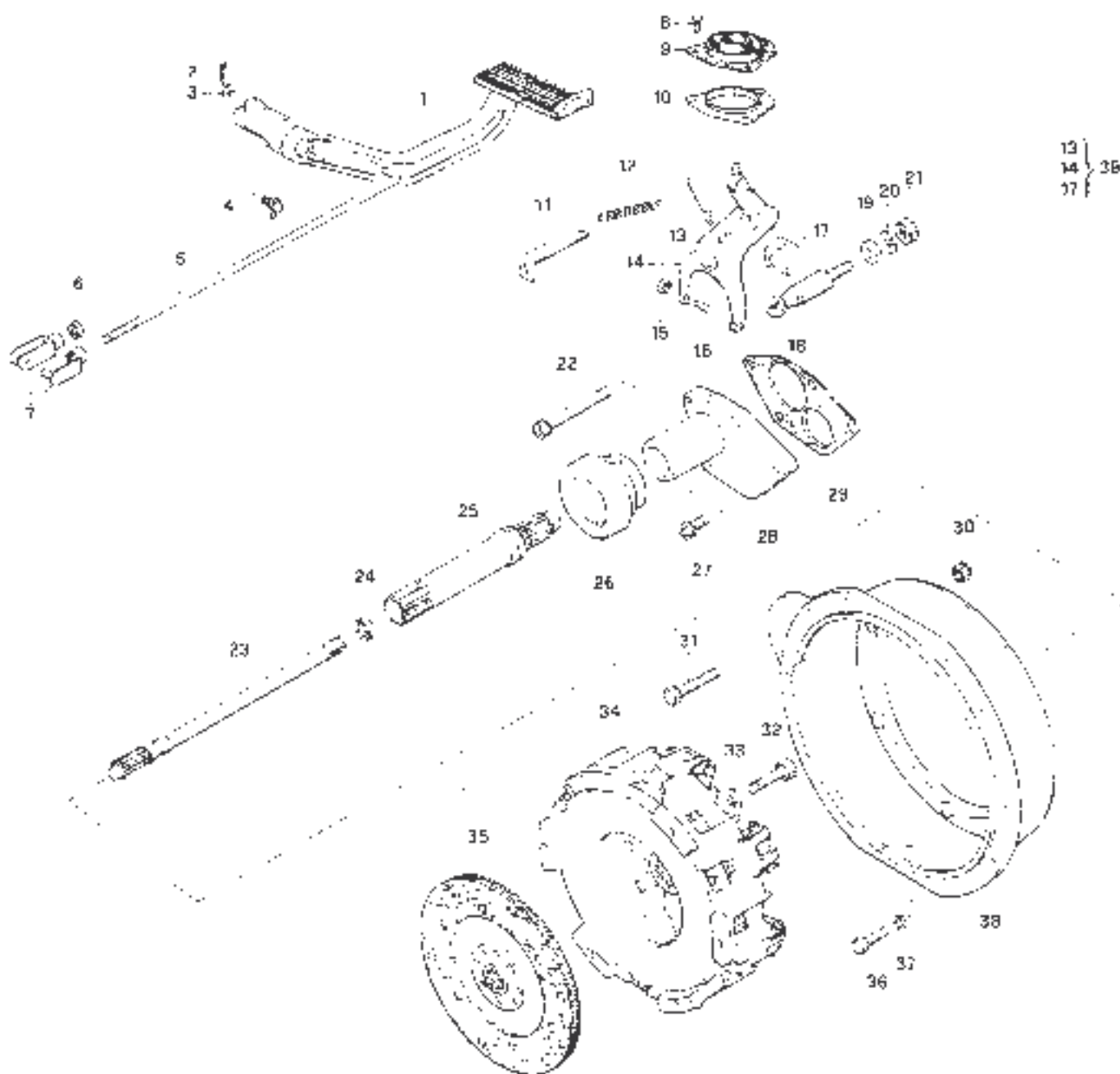


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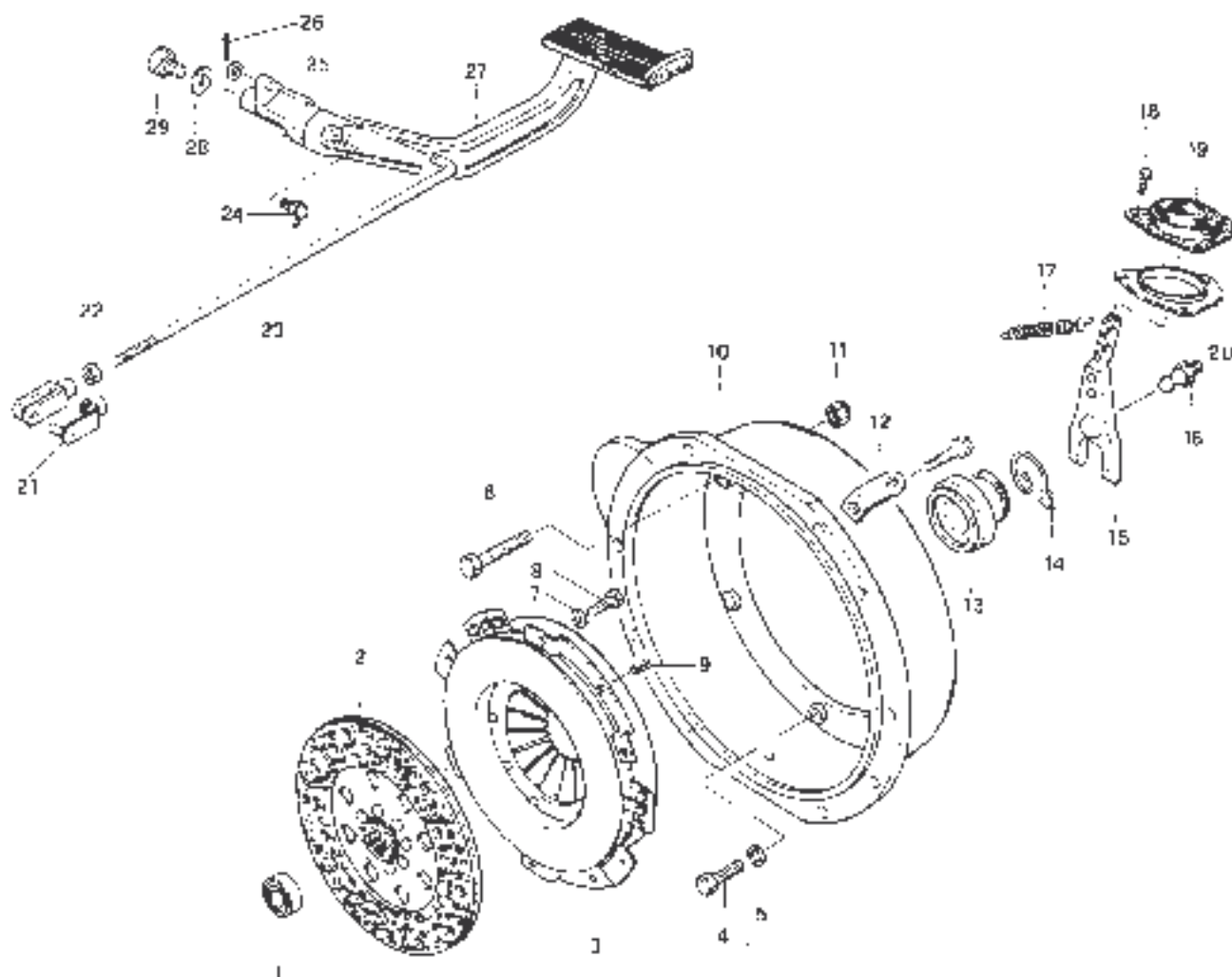
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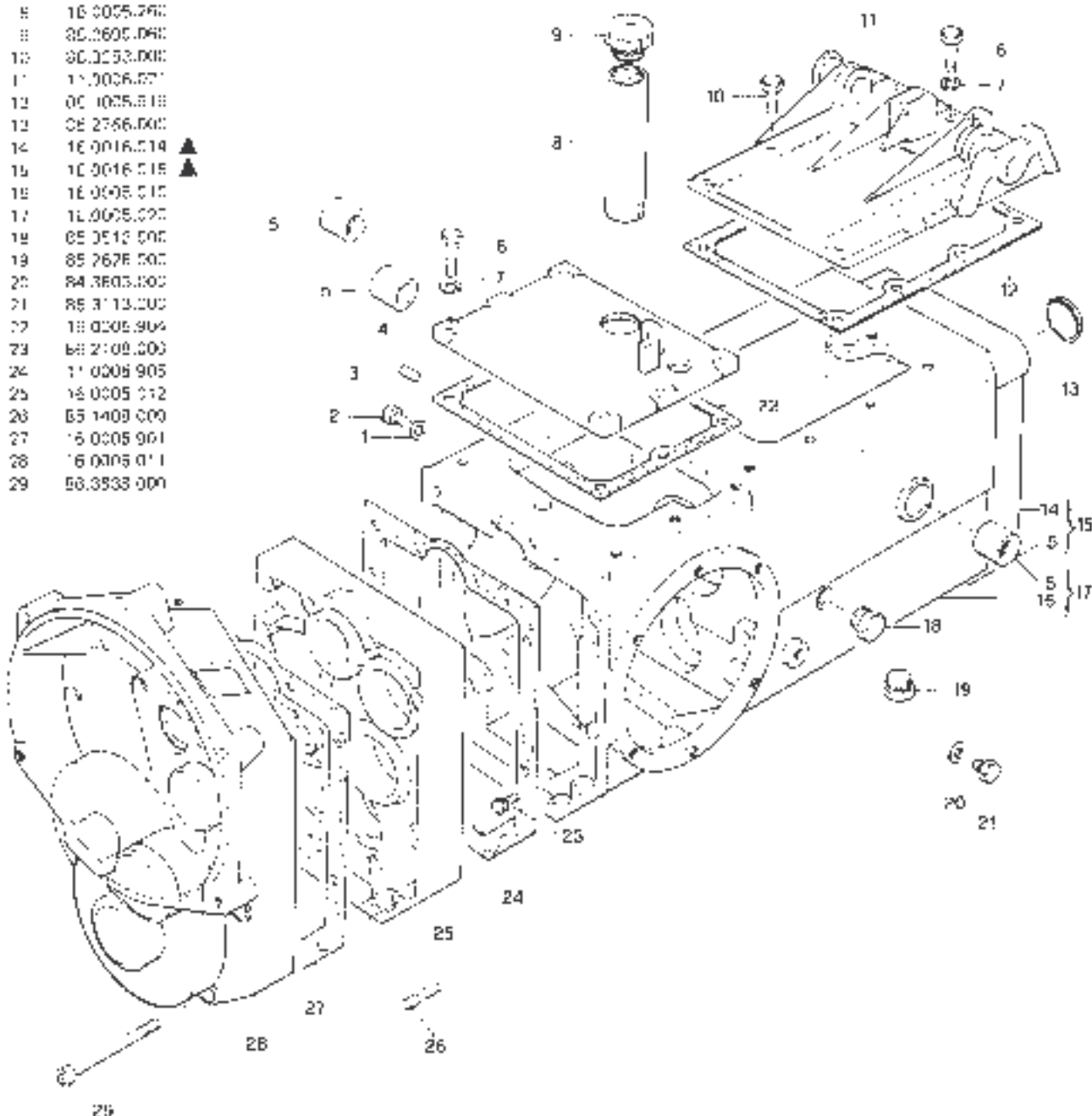


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3 16.0015.901	13 16.2015.900	23 16.0032.234
4 86.3278.000	14 81.3134.050	24 82.6039.000
5 84.3755.000	15 81.3134.010	25 94.3685.000
6 86.3554.000	16 16.2015.200	26 31.0505.000
7 84.3643.050	17 93.1139.000	27 16.0032.218
8 86.2554.000	18 86.1996.000	28 84.3317.000
9 85.1232.000	19 11.2015.903	29 86.3155.000
10 16.0015.515	20 11.2015.239	

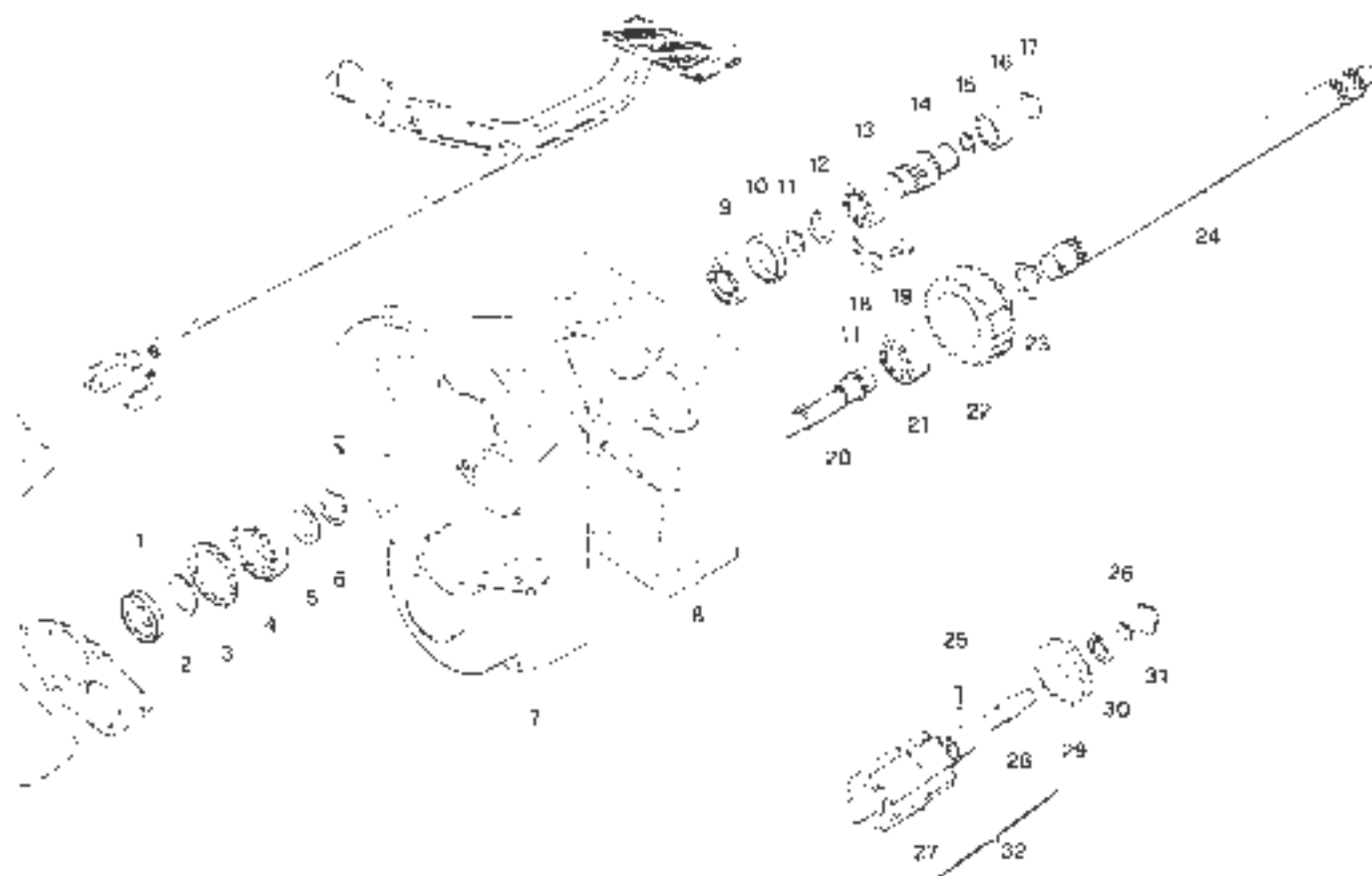






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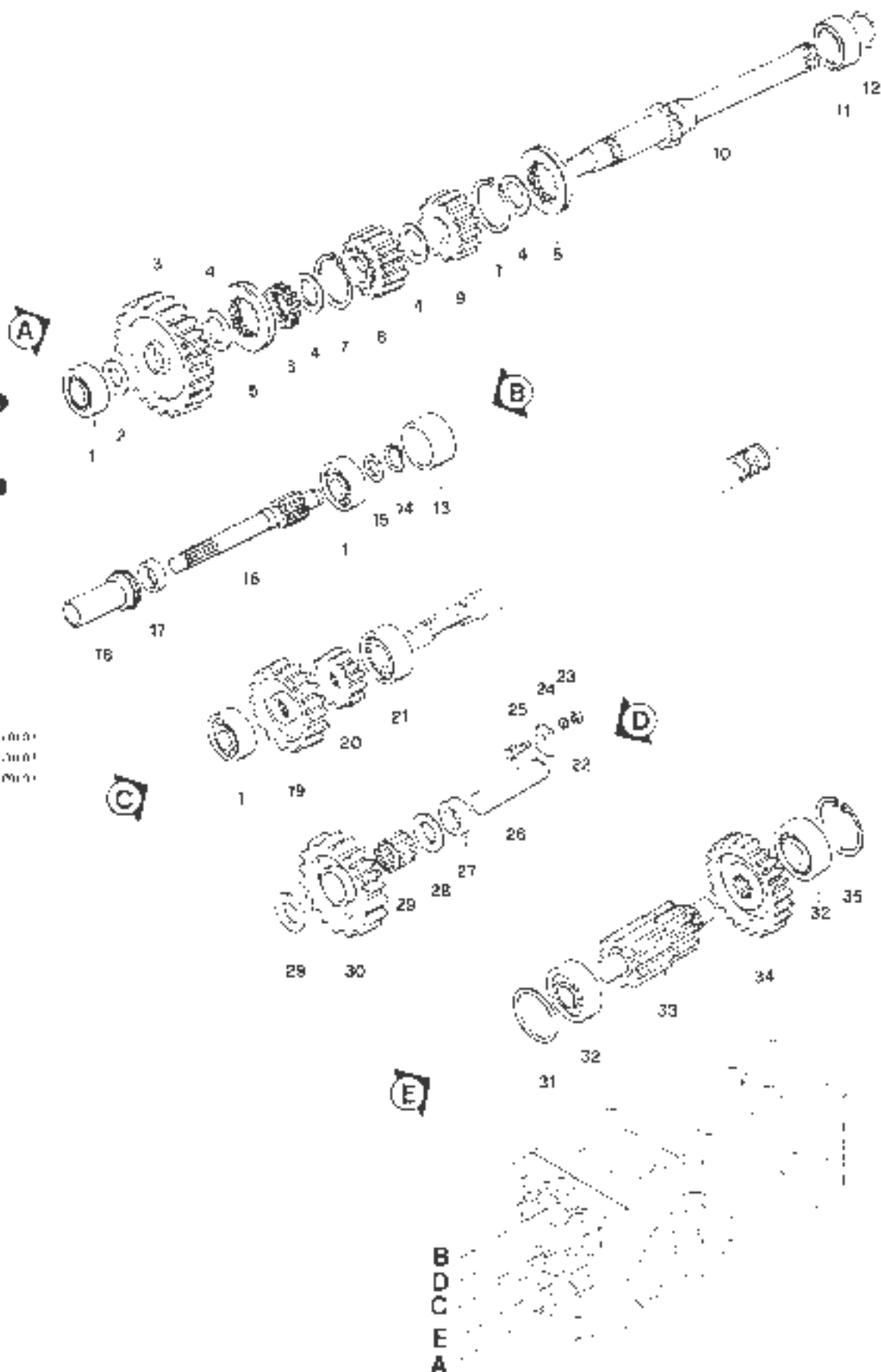
1	81.0647.000
2	81.2157.000
3	80.3125.000
4	16.0025.010
5	16.0025.011
6	86.3353.000
7	84.3755.000
8	16.0025.260
9	80.3605.000
10	80.3053.000
11	11.0026.071
12	00.1025.010
13	08.2756.000
14	16.0016.014 ▲
15	16.0016.015 ▲
16	16.0025.010
17	16.0025.020
18	85.3512.000
19	85.2678.000
20	84.3803.000
21	85.3113.000
22	18.0205.904
23	88.2109.000
24	11.0008.905
25	16.0005.012
26	85.1409.000
27	16.0005.901
28	16.0005.011
29	88.3533.000

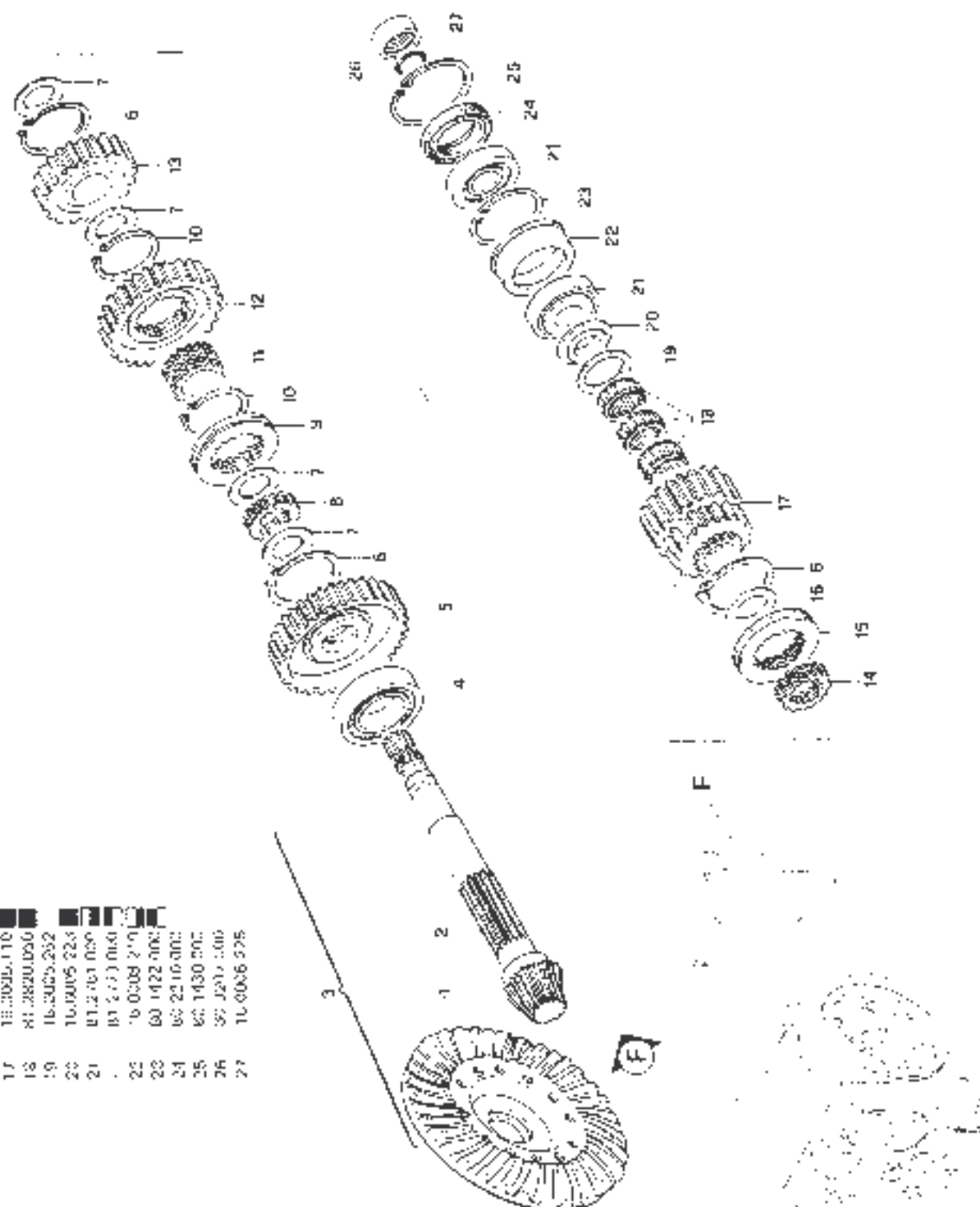


No. ORDIN	No. ORDIN	No. ORDIN
1 80.2178.000	12 84.4278.000	23 80.1220.000
2 80.1289.000	13 81.2708.020	24 16.0016.254
3 16.0016.212	14 16.0016.201	25 85.1150.000
4 81.2024.010	15 80.1309.000	26 80.1125.000
5 84.4467.000	16 81.2507.070	27 16.0016.205
6 80.1264.000	17 80.0047.000	28 16.0016.206
7 16.0016.015	18 16.0016.211	29 16.0016.207
8 16.0016.013	19 86.2019.000	30 81.2567.000
9 81.2728.010	20 16.0016.218	31 80.1246.000
10 16.0016.209	21 81.2731.000	32 16.0016.217
11 80.1185.000	22 16.0016.100	



Nr.	Q.P.N.
1	E1 2556.030
2	16.0005.216
3	16.0005.205
4	16.0005.219
5	16.0005.220
6	16.0005.225
7	80.1333.000
8	16.0005.106
9	16.0005.105
10	16.0005.108
11	61.2832.000
12	80.0057.050
13	16.0005.251
14	80.1149.000
15	61.4257.060
16	16.0005.100 
17	16.0006.100 
18	80.2092.000
19	16.0005.215
20	16.0005.101 
21	16.0006.101 
22	16.0005.200
23	81.2731.340
24	91.4543.000
25	84.2571.000
26	16.0005.227
27	95.2191.000
28	16.0005.202
29	16.0005.217
30	16.0005.216
31	84.7020.010
32	15.0005.157
33	85.0114.000 (D 3.000)
34	85.0114.010 (D 3.000)
35	85.0114.020 (D 3.000)
36	81.2731.030
37	16.0005.103
38	16.0005.102
39	80.1400.000





NO. QUANT.

14	75 0005 211
15	76 0005 212
16	78 0005 221
17	78 0005 110
18	81 0005 050
19	16 0005 252
20	16 0005 223
21	81 2 01 050
22	81 2 01 060
23	80 0005 210
24	80 1422 002
25	80 22 16 002
26	80 1430 002
27	80 22 16 002
28	80 22 16 002

NO. QUANT.

1	16 0005 102
2	76 0005 110
3	78 0005 133
4	16 0005 114
5	16 0005 267
6	16 0005 268
7	81 2305 010
8	81 0005 115
9	80 1312 020
10	16 0005 220
11	16 0005 211
12	16 0005 212
13	80 1383 002
14	76 0005 112
15	76 0005 116
16	78 0005 117

1000 6408

Sequenza di montaggio



155.582



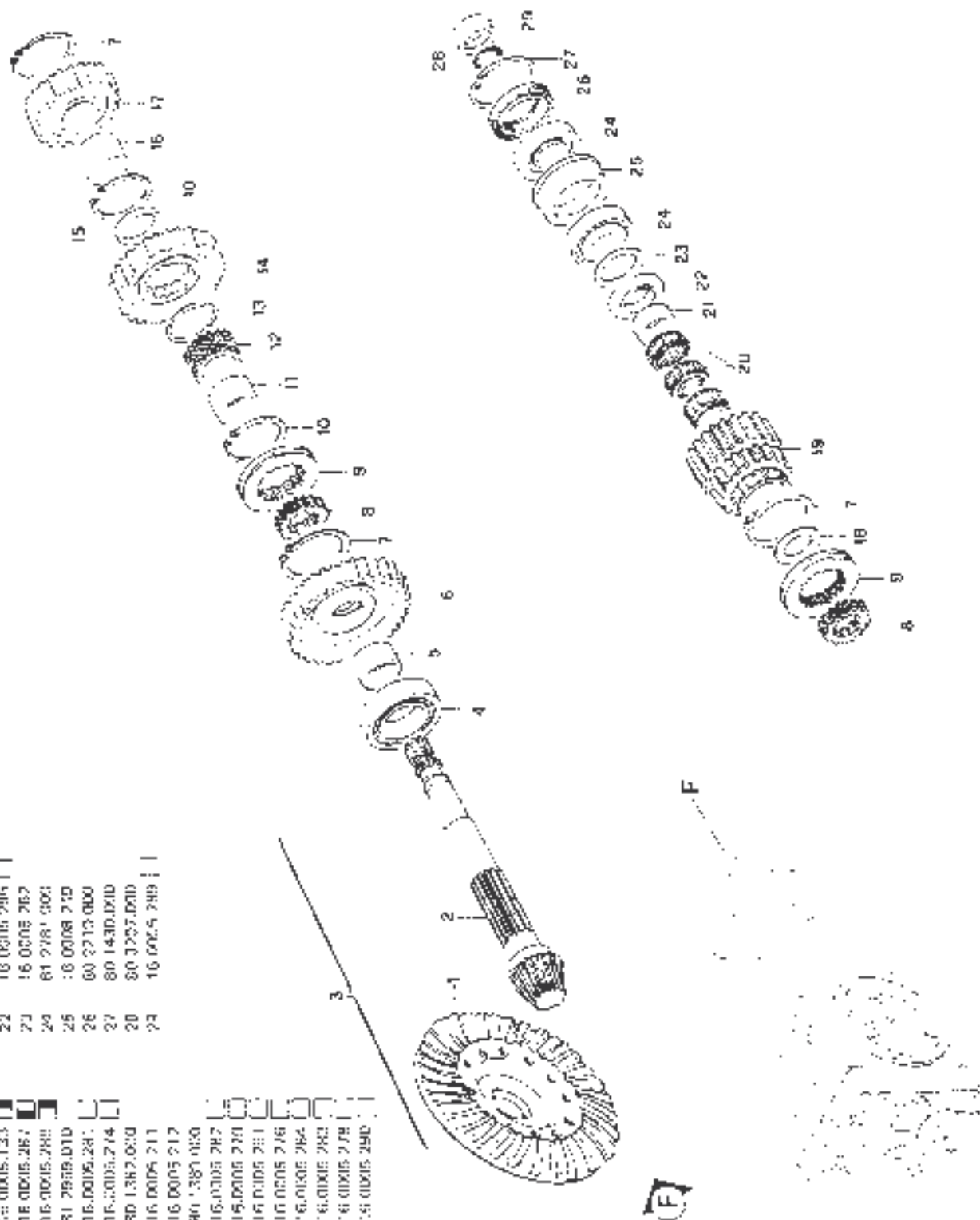
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1000 6408

NO. CHILIA		NO. ORDINE	
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3	16.0015.114	21	16.0046.004
4	16.0015.133	22	16.0015.216
5	16.0015.267	23	16.0015.267
6	16.0015.288	24	16.0015.000
7	16.0015.010	25	16.0008.710
8	16.0015.281	26	16.0013.000
9	16.0015.274	27	16.0013.010
10	16.0015.020	28	16.0013.000
11	16.0015.211	29	16.0015.289
12	16.0015.217		
13	16.0015.020		
14	16.0015.287		
15	16.0015.271		
16	16.0015.281		
17	16.0015.276		
18	16.0015.284		
19	16.0015.282		
20	16.0015.278		
21	16.0015.290		

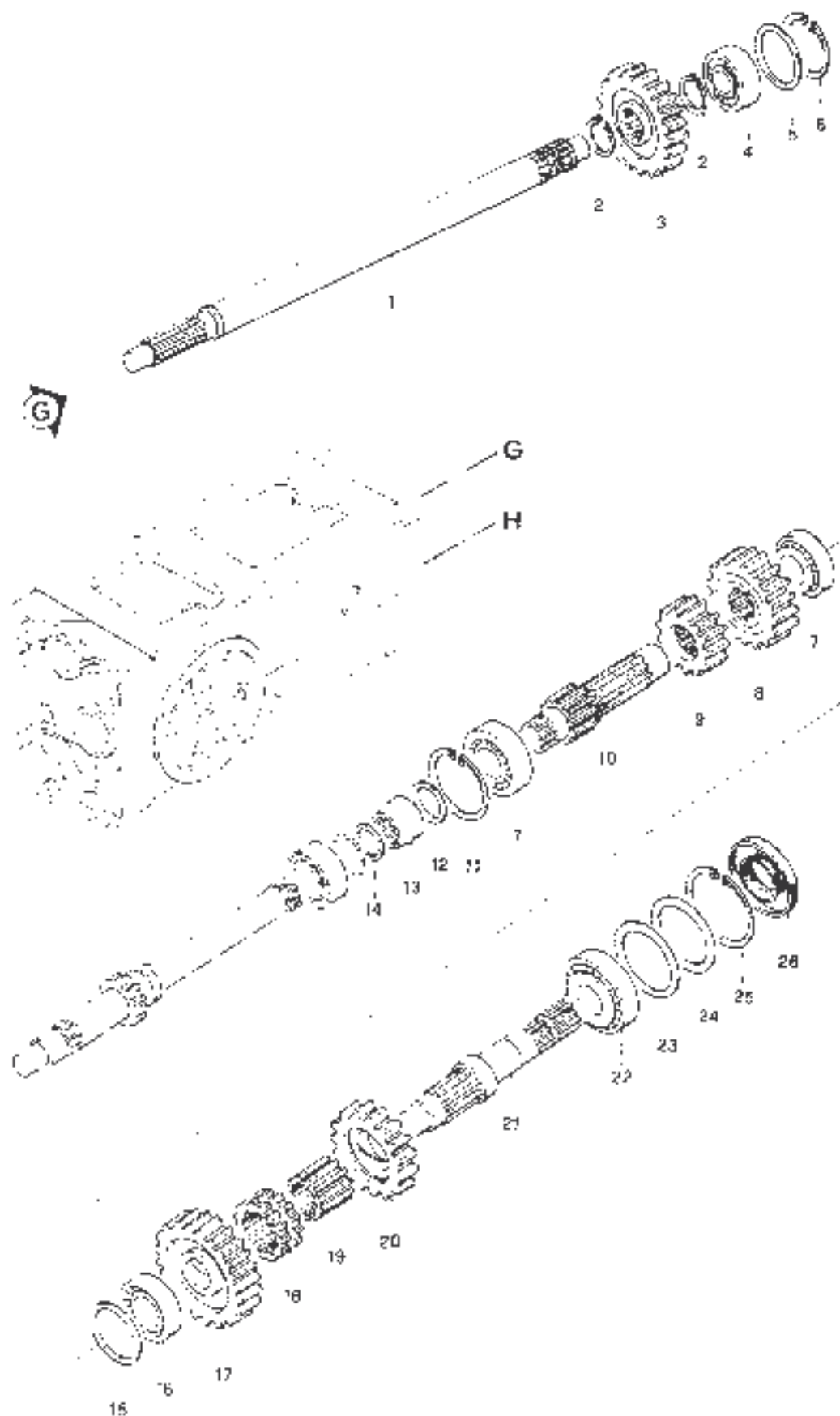
T.P.S. 4-10A

Separazione 4 assi

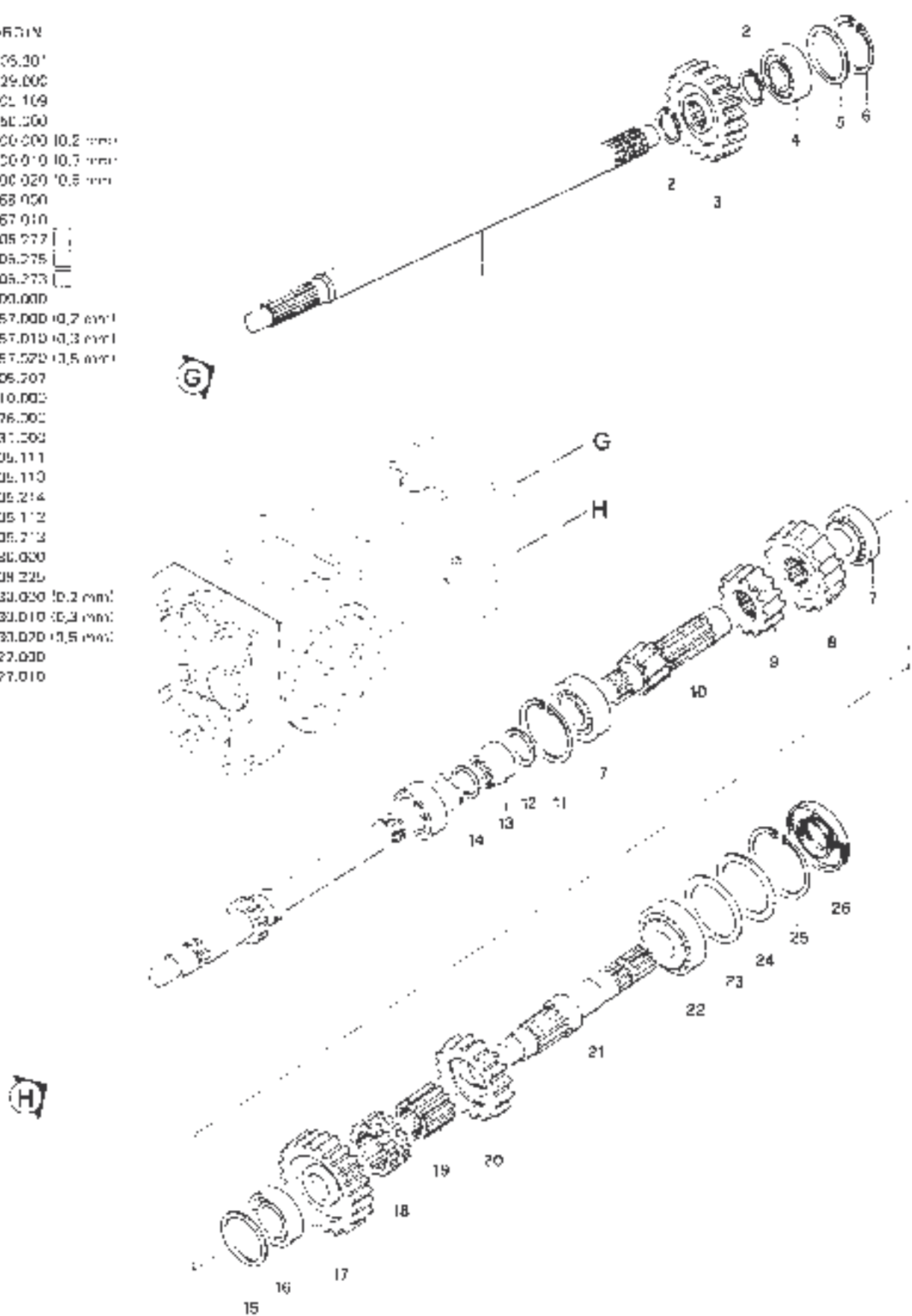


NUM. ORDINE

1	85 0005 201	
2	85 1225 300	
3	85 0005 109	
4	81 7856 200	
5	85 0100 200	0,2 mm
-	85 0100 210	0,3 mm
-	85 0100 220	0,5 mm
6	85 1366 300	
7	81 2767 310	
8	16 0005 210	■
9	16 0005 209	■
10	16 0005 208	■
11	80 1900 000	
12	85 0057 300	0,2 mm
-	85 0057 310	0,3 mm
-	85 0057 320	0,5 mm
13	16 0005 207	
14	80 1210 000	
15	84 4578 000	
16	81 2773 200	
17	16 0005 111	
18	16 0005 113	
19	16 0005 214	
20	16 0005 117	
21	16 0005 212	
22	81 2780 200	
23	11 0008 225	
24	85 0130 300	0,2 mm
-	85 0130 310	0,3 mm
-	85 0130 320	0,5 mm
25	80 1925 000	
26	80 2727 000	

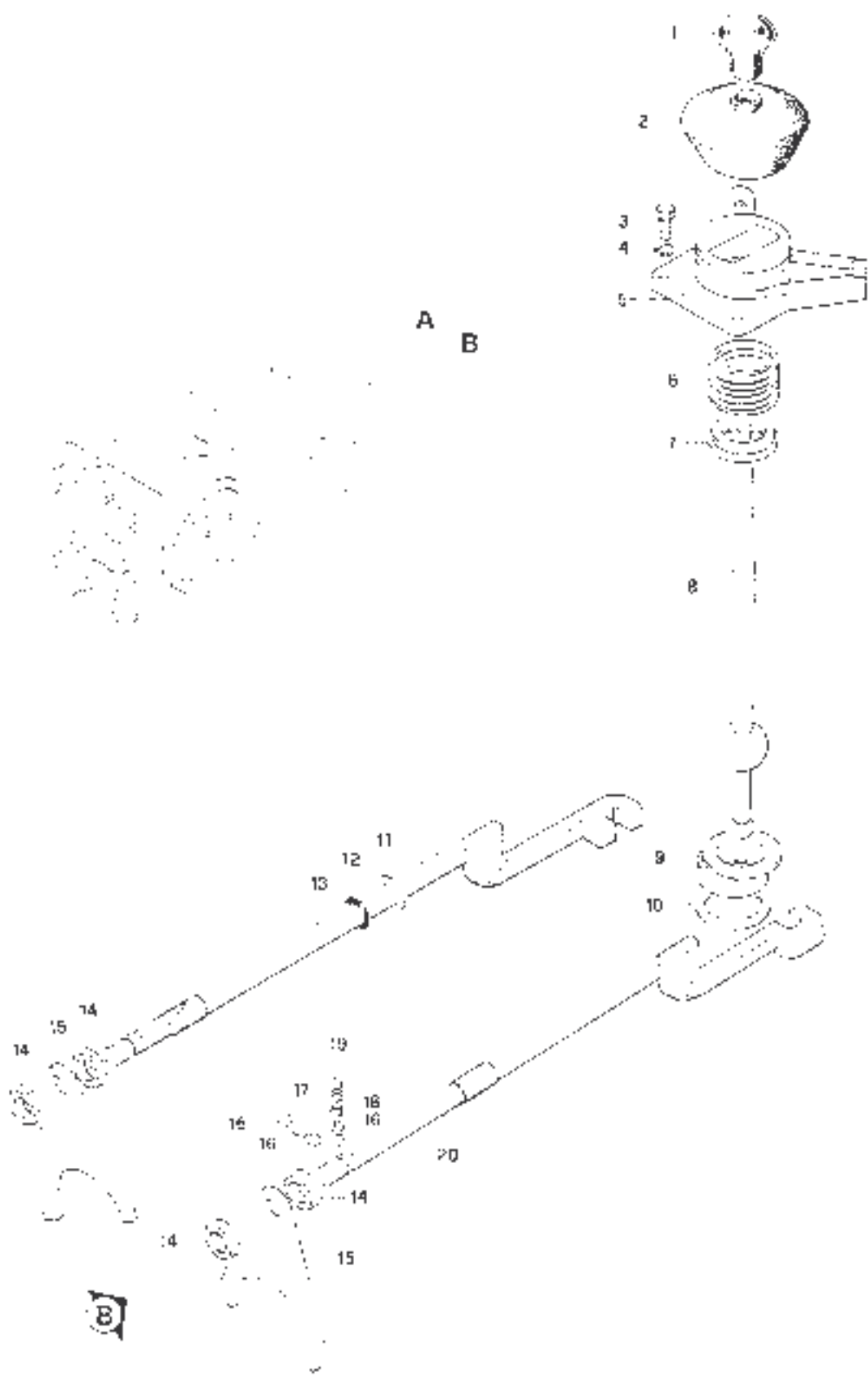


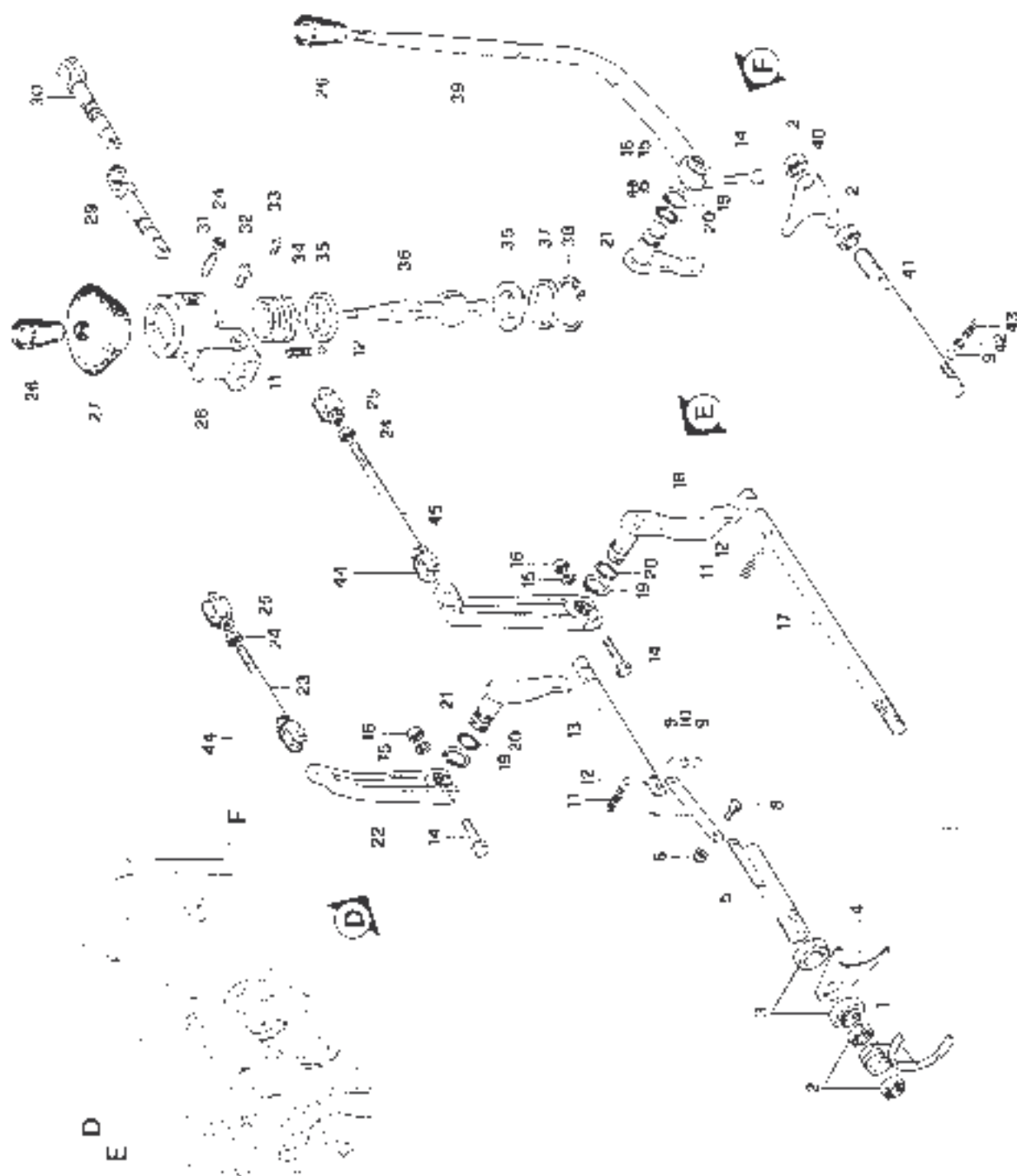
No. ORDINE	
1	18.0005.201
2	90.1229.000
3	10.0002.109
4	91.2050.200
5	85.0100.000 (0,2 mm)
-	85.0100.010 (0,3 mm)
-	85.0100.020 (0,5 mm)
6	30.1368.050
7	81.2767.010
8	16.0005.277
9	16.0005.275
10	15.0305.273
11	80.1400.000
12	85.0057.000 (0,2 mm)
-	85.0057.010 (0,3 mm)
-	85.0057.020 (0,5 mm)
13	16.0005.207
14	90.1710.000
15	94.4576.000
16	91.2737.200
17	16.0005.111
18	16.0005.110
19	16.0005.214
20	16.0005.112
21	16.0005.212
22	81.2780.000
23	11.0008.226
24	85.0130.030 (0,2 mm)
-	85.0130.010 (0,3 mm)
-	85.0130.070 (0,5 mm)
25	80.1422.000
26	80.2127.010



№ ORDINE

1	83.7552.000
2	15.0025.900
3	86.2954.000
4	84.3843.050
5	15.0005.214
6	80.1575.010
7	15.0025.210
8	15.0005.120
9	15.0005.800
10	15.0005.202
11	15.0005.250
12	80.3133.000
13	15.0005.278
14	01.0021.319
15	15.0005.243
16	84.7437.000
17	15.0005.252
18	47.1562.048
19	83.1022.000
20	15.0005.231



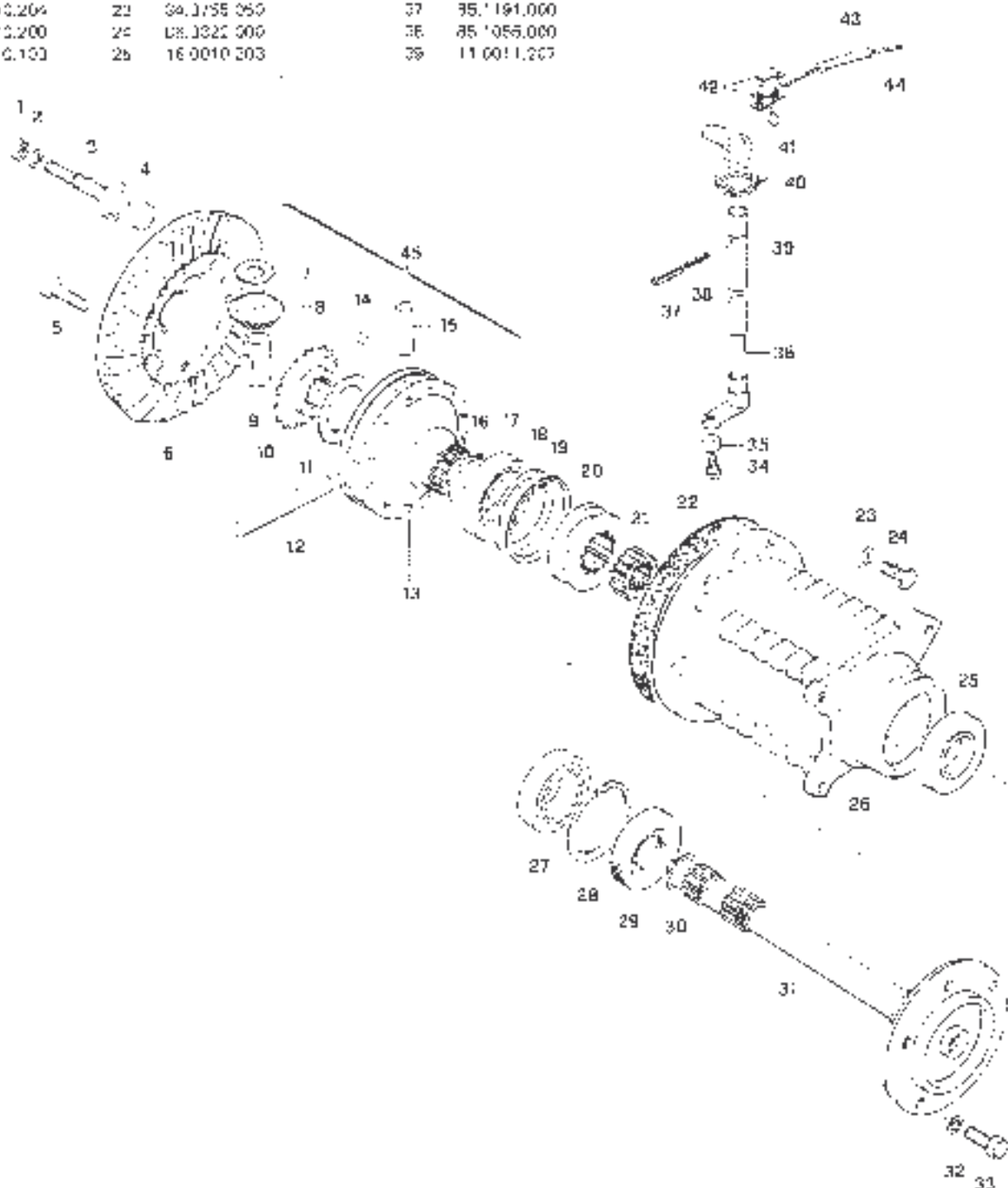


No. CHIAM.

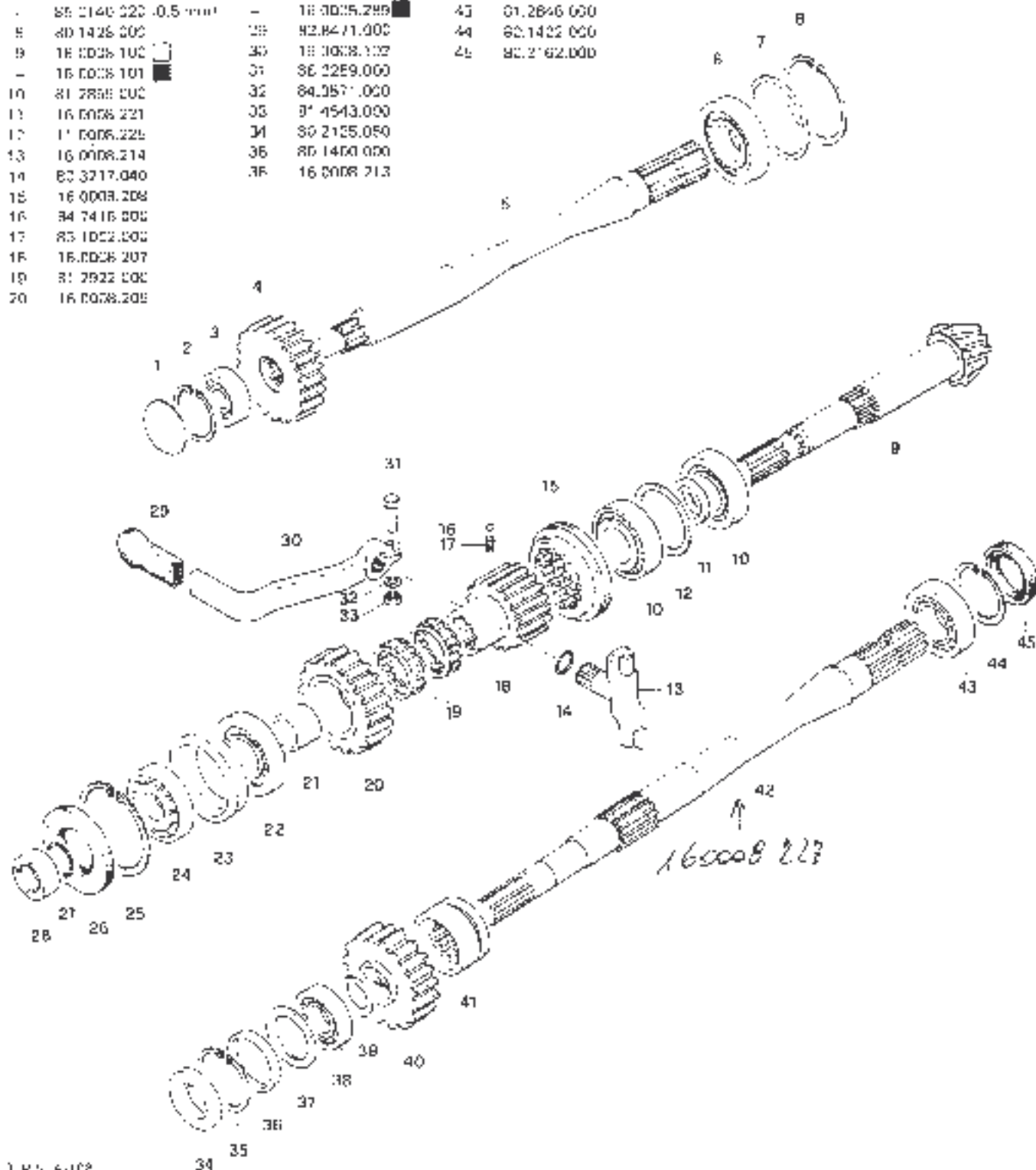
1	16.0005.120
2	01.0001.319
3	16.0005.251
4	16.0005.242
5	16.0005.264
6	07.4540.030
7	16.0005.240
8	06.2158.000
9	04.7432.000
10	16.0005.263
11	53.1160.000
12	04.7416.000
13	16.0005.235
14	06.2045.020
15	04.3043.050
16	01.45.19.020
17	16.0005.234
18	16.0005.265
19	02.1155.000
20	00.3072.070
21	16.0005.268
22	16.0005.131
23	16.0005.253
24	01.45.13.000
25	06.0000.000
26	03.7E37.050
27	15.0005.900
28	16.0005.016
29	16.0005.120
30	16.0005.127
31	06.2000.000
32	00.3172.020
33	02.0016.000
34	03.1375.000
35	15.0005.215
36	16.0005.129
37	16.0005.252
38	07.1388.000
39	16.0005.121
40	16.0005.244
41	16.0005.236
42	47.1560.049
43	03.1120.070
44	06.0058.020
45	16.0005.255

T.P.S. 4-105

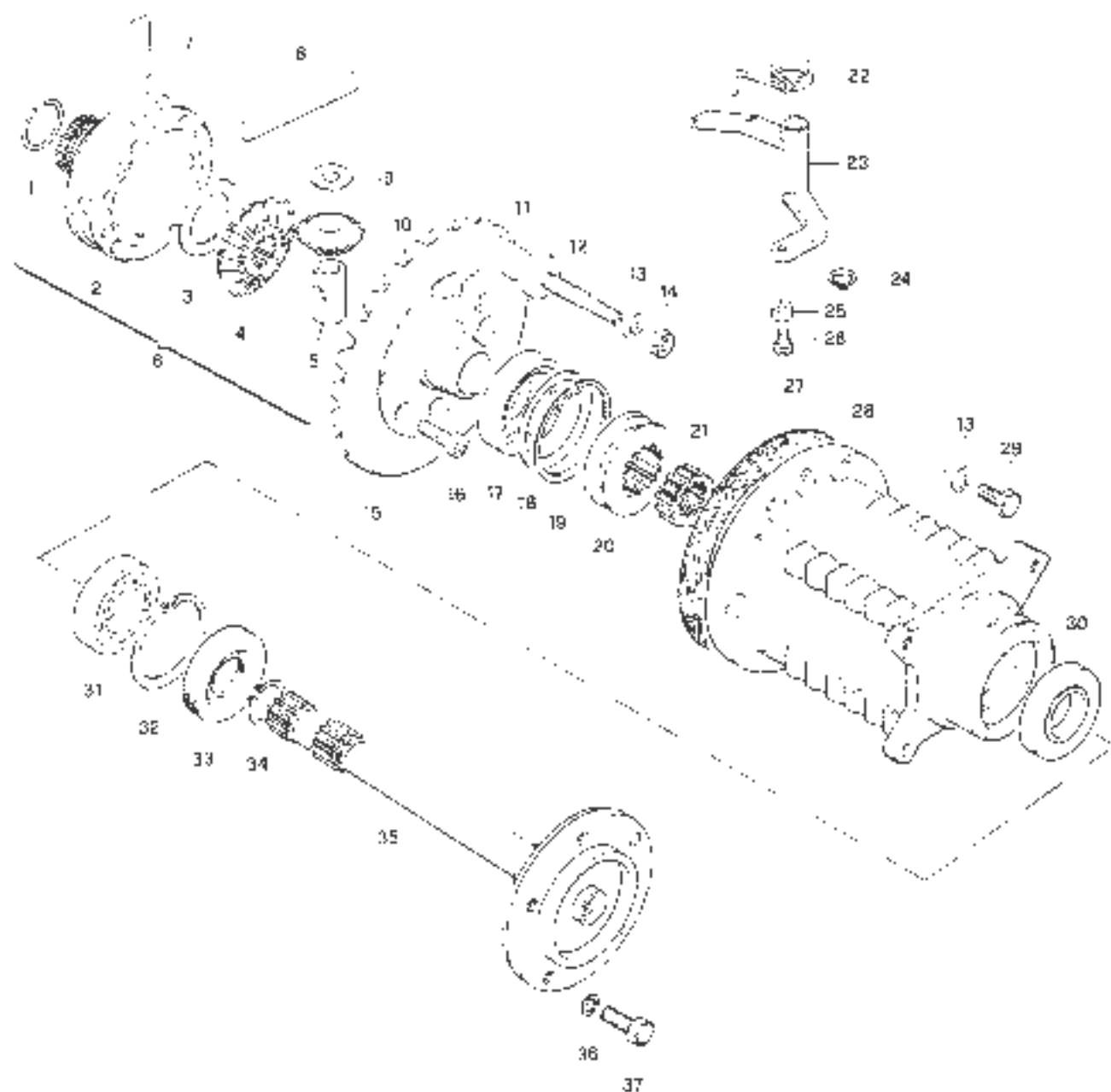
No. ORDIN.	No. Q-ORD. N.	No. ORDIN.	No. Q-ORD. N.
1	81.4643.000	14	16.0010.208
2	84.3755.050	15	16.0010.201
3	11.0011.107	16	30.0064.020
4	11.0013.207	17	31.2973.050
5	65.3452.000	18	85.0163.000 10,2 mm
6	16.0010.110	-	85.0161.000 10,3 mm
-	16.0010.100	-	85.0162.000 10,5 mm
7	16.0010.205	19	80.1423.000
8	16.0010.105	20	16.0010.102
9	16.0010.202	21	16.0010.108
10	16.0010.104	22	02.0010.807
11	16.0010.204	22	34.1755.050
12	16.0010.200	24	08.1022.000
13	16.0010.103	25	16.0010.203
		26	16.0010.210
		27	61.2838.000
		28	80.1430.000
		29	80.7235.060
		30	80.1207.000
		31	16.0010.108
		32	84.3921.020
		33	86.4192.000
		34	01.0001.078
		35	01.0001.079
		36	16.0010.109
		37	35.1191.000
		38	85.1055.000
		39	11.0011.207
		40	86.0030.050
		41	11.0011.209
		42	86.0030.050
		43	65.7256.090
		44	86.5485.030
		45	16.0010.209



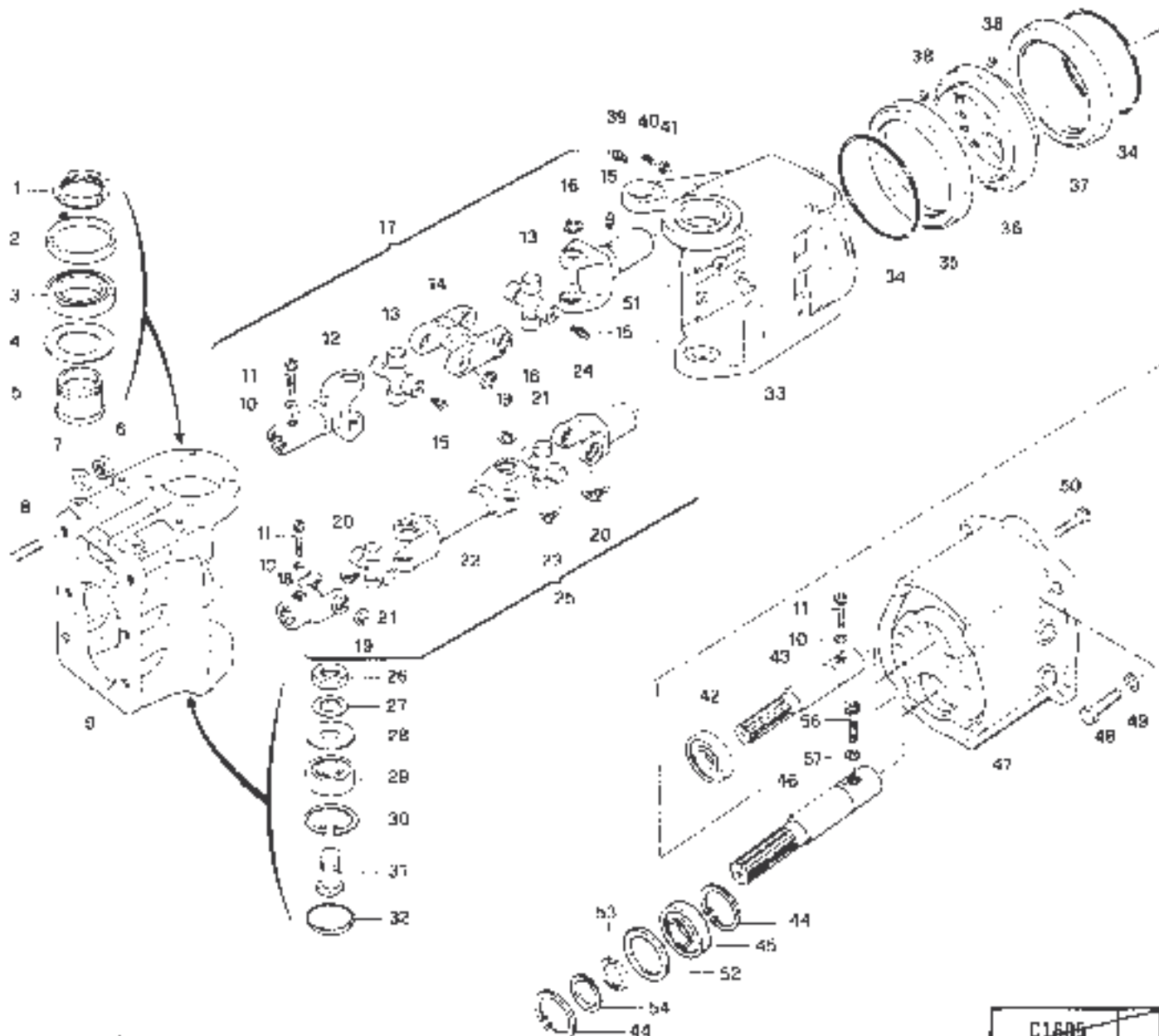
No. ORD. N.	No. ORD. N.	No. ORD. N.
1 85 2755.000	21 1E 3008.220	37 95.0114.030 0.2 mm
2 80 1369.000	22 81 2670.020	38 95.0114.010 0.2 mm
3 81 2658.000	23 1E 3008.219	- 95.0114.020 0.2 mm
4 1E 3008.204	24 81 2781.000	39 81 2757.030
5 1E 3008.210	25 85 1430.050	40 16 0008.217
6 81 2669.000	26 85 2210.050	41 16 0008.206
7 85 0140.000 0.2 mm	27 85 3257.050	42 1E 3008.209
8 85 0140.010 0.2 mm	28 1E 3008.275	43 1E 3008.211
9 85 0140.020 0.5 mm	- 1E 3008.289	44 01.2846.030
10 80 1426.000	29 82.8471.000	45 80.2162.000
11 1E 3008.100	30 1E 3008.102	
- 1E 3008.101	31 8E 2259.000	
12 81 2858.000	32 84.2571.000	
13 1E 3008.221	33 81 4543.000	
14 1E 3008.225	34 80 2155.050	
15 1E 3008.214	35 85 1460.000	
16 80 3217.040	36 16 0008.213	
17 1E 3008.208		
18 84 7416.000		
19 83 1002.000		
20 1E 3008.207		
21 81 2922.000		
22 1E 3008.205		



No. ORDIN.	No. ORDIN.	No. ORDIN.
1 80.0064.000	16 80.3452.000	30 10.3010.203
2 16.0010.103	17 81.2972.000	31 81.2939.000
3 16.0010.204	18 85.0180.000 (+0,2 mm)	32 80.1430.000
4 16.0010.104	- 85.0181.000 (+0,3 mm)	33 80.2778.050
5 16.0010.202	- 85.0182.000 (+0,5 mm)	34 80.1757.050
6 16.0010.200	19 00.1402.000	35 16.0010.106
7 16.0010.201	20 16.0010.102	36 64.3821.020
8 16.0010.200	21 16.0010.109	37 85.4102.000
9 16.0010.205	22 80.1316.000	
10 10.0010.105	23 16.0010.201	
11 11.0010.207	24 80.1130.000	
12 11.0010.107	25 21.0001.079	
13 84.3765.050	26 21.0021.078	
14 81.1843.000	27 02.3010.502	
15 16.0010.101	28 16.0010.010	
- 16.0010.100	29 86.3022.000	



No ORD N. PART No. No ORD N. SESTILE No. No REFERENCE A						
1	82.1070.000	15	87.6216.000	34	80.2291.000	66.4012.000
2	16.0012.202	16	80.1232.000	35	16.0012.122	16.0012.214
3	81.3000.000	17	16.0012.203	36	16.0012.131	16.0012.220
4	85.0133.000	18	16.0012.218	37	16.0012.130	16.0012.220
5	16.0012.201	19	80.1175.000	38	84.7470.050	16.0012.271
6	81.4787.000	20	82.6041.000	39	82.6038.000	16.0012.271
7	84.4084.000	21	16.0012.210	40	86.2593.000	80.1308.000
8	83.8745.000	22	16.0012.217	41	81.4570.010	80.1308.000
9	16.0012.010	23	82.6042.000	42	81.2849.000	86.2853.000
10	84.3643.060	24	16.0012.215	43	16.0012.205	84.2642.050
11	86.2852.000	25	16.0012.204	44	80.1403.000	
12	16.0012.211	26	81.4317.000	-	80.1400.050	
13	16.0012.212	27	84.4454.000	45	81.2636.000	
14	16.0012.213	28	86.0057.040	46	16.0012.206	
		29	81.2777.000	47	16.0012.012	
		30	80.1422.000	48	86.4296.050	
		31	16.0012.200	49	84.0921.020	
		32	85.2197.000	50	86.4007.000	
		33	16.0012.013	-	86.4012.000	

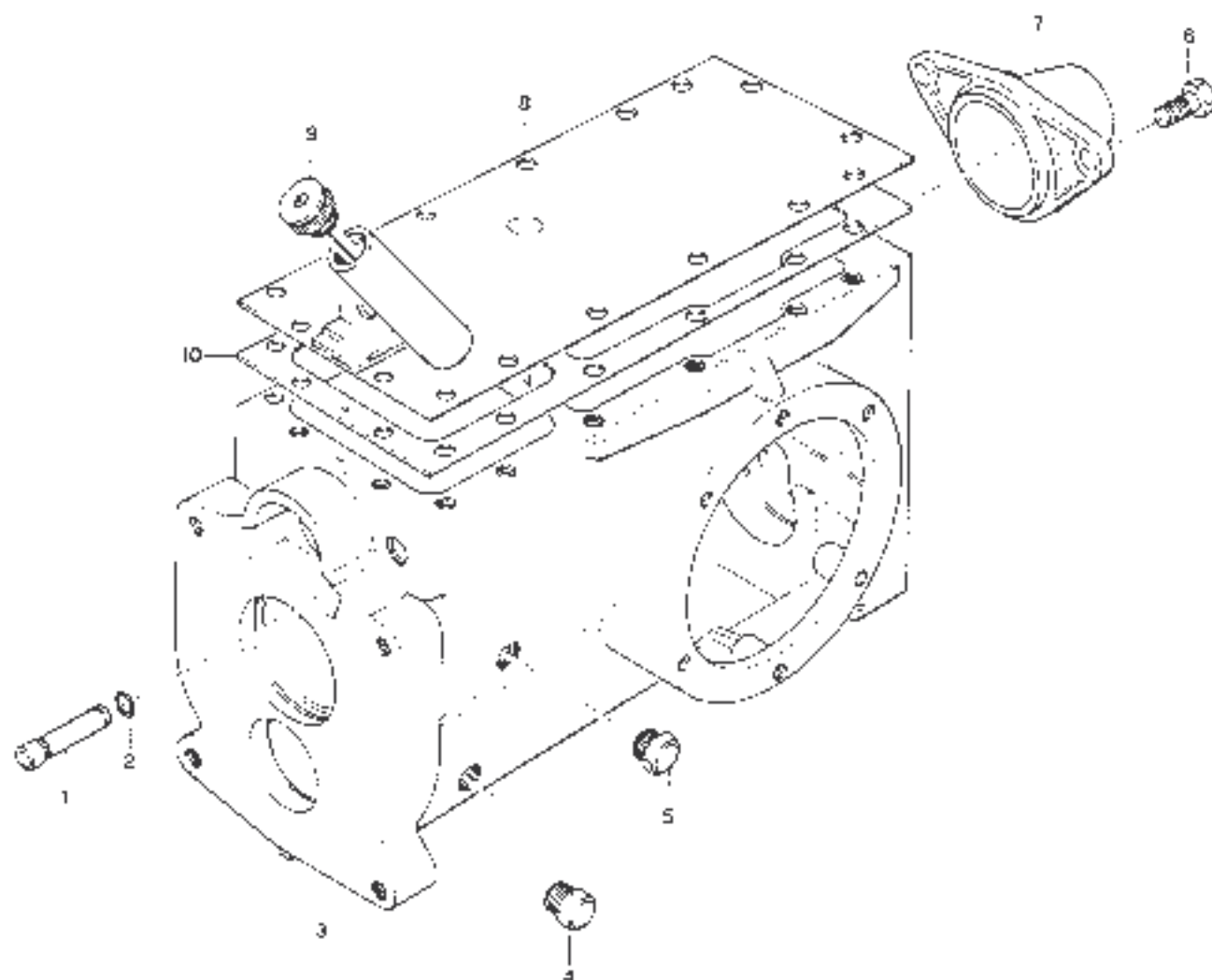


I.P.S. 4-785

Legenda:
 □ 16L940
 ■ 16L841

□ 16L940 ■ 16L841

	NO. ORIGIN.
1	18.0008.223
2	80.3057.050
3	15.060F.012
4	85.262F.000
5	85.3512.000
6	86.3702.000
7	16.0308.000
8	18.0008.217
9	18.0008.728
10	09.0011.912

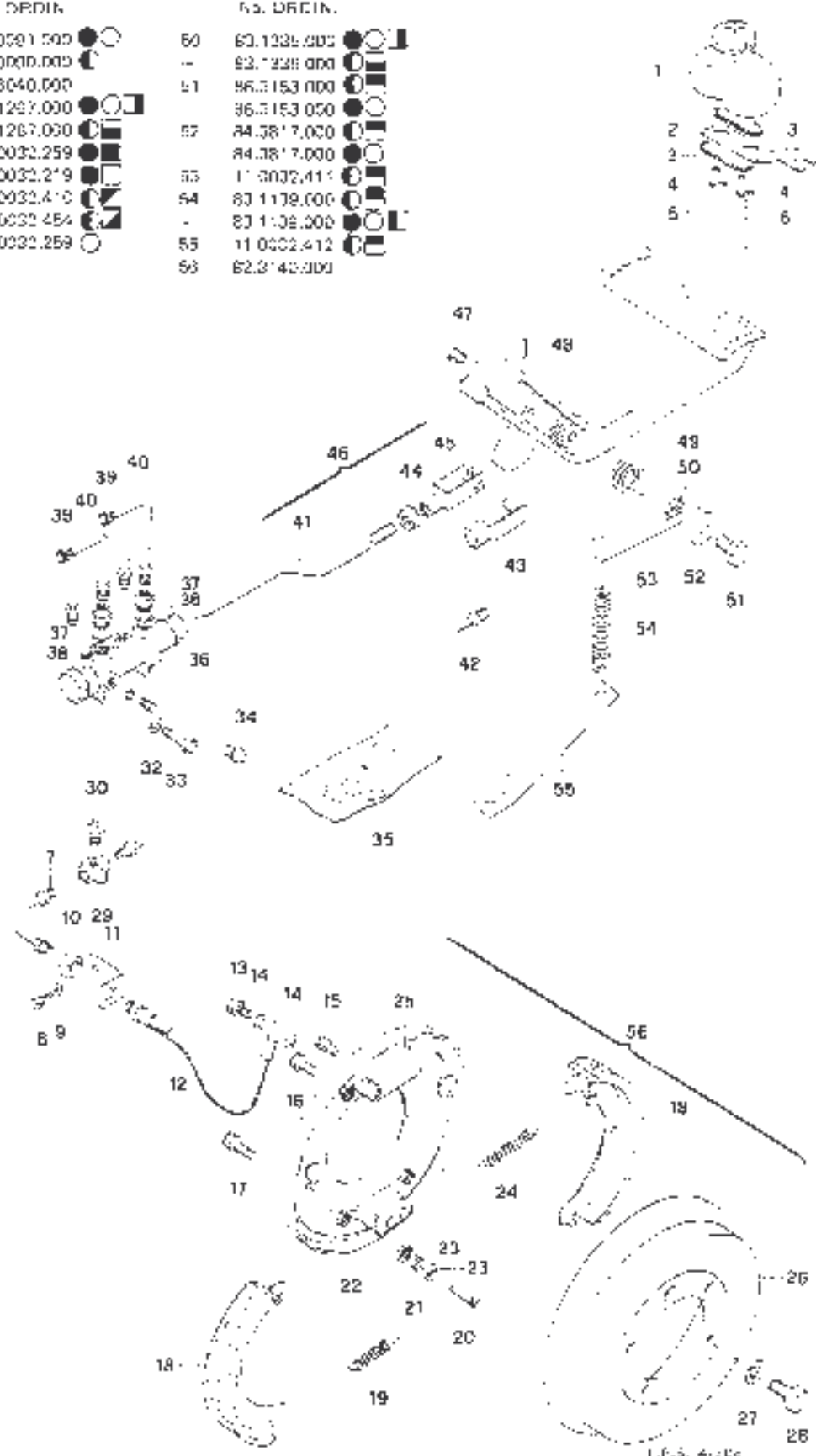


4294 UZZARA RD TEL 0542 63791 (1 LINE)

14-0177

Z-0677

Fig. D-1219	Nr. ORDIN.	Nr. DREIN.
1	11.0021.915	60.0001.500
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3	80.3253.000	62.0040.000
4	81.7505.000	85.1287.000
5	11.0021.902	85.1287.000
6	11.0021.903	16.0032.259
7	16.0022.901	16.0032.219
8	16.0021.902	11.0032.410
9	16.0021.923	11.0032.454
10	84.3570.000	16.0032.259
11	84.3570.000	60.1035.000
12	81.4780.000	63.1238.000
13	11.0021.280	86.3153.000
14	11.0021.904	86.3153.000
15	64.3102.000	84.3817.000
16	64.3771.000	84.3817.000
17	82.3143.005	11.0032.411
18	85.3564.000	83.1139.000
19	85.3570.000	83.1139.000
20	86.3358.000	11.0032.412
21	87.3140.002	62.3140.000
22	87.3140.004	
23	82.3140.007	
24	82.3140.008	
25	82.3140.009	
26	82.3140.010	
27	82.3875.000	
28	84.3994.000	
29	86.4182.000	
30	62.5300.000	
31	62.5307.000	
32	62.5308.000	
33	62.5423.020	
34	11.0021.907	
35	16.0021.900	
36	11.0021.907	
37	84.3798.000	
38	86.3448.000	
39	16.0021.925	
40	16.0021.901	
41	11.0021.908	
42	16.0022.900	
43	11.0025.263	
44	16.0021.928	
45	11.0025.263	
46	63.7102.000	
47	63.7103.000	
48	63.7102.000	
49	63.7102.020	
50	63.7102.030	
51	81.7505.000	
52	11.0021.906	
53	11.0021.278	
54	16.0021.200	
55	16.0021.923	
56	11.0021.910	
57	16.0021.903	
58	16.0021.923	
59	86.0091.020	
60	86.0090.020	
61	81.4643.000	
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63	86.0090.010	

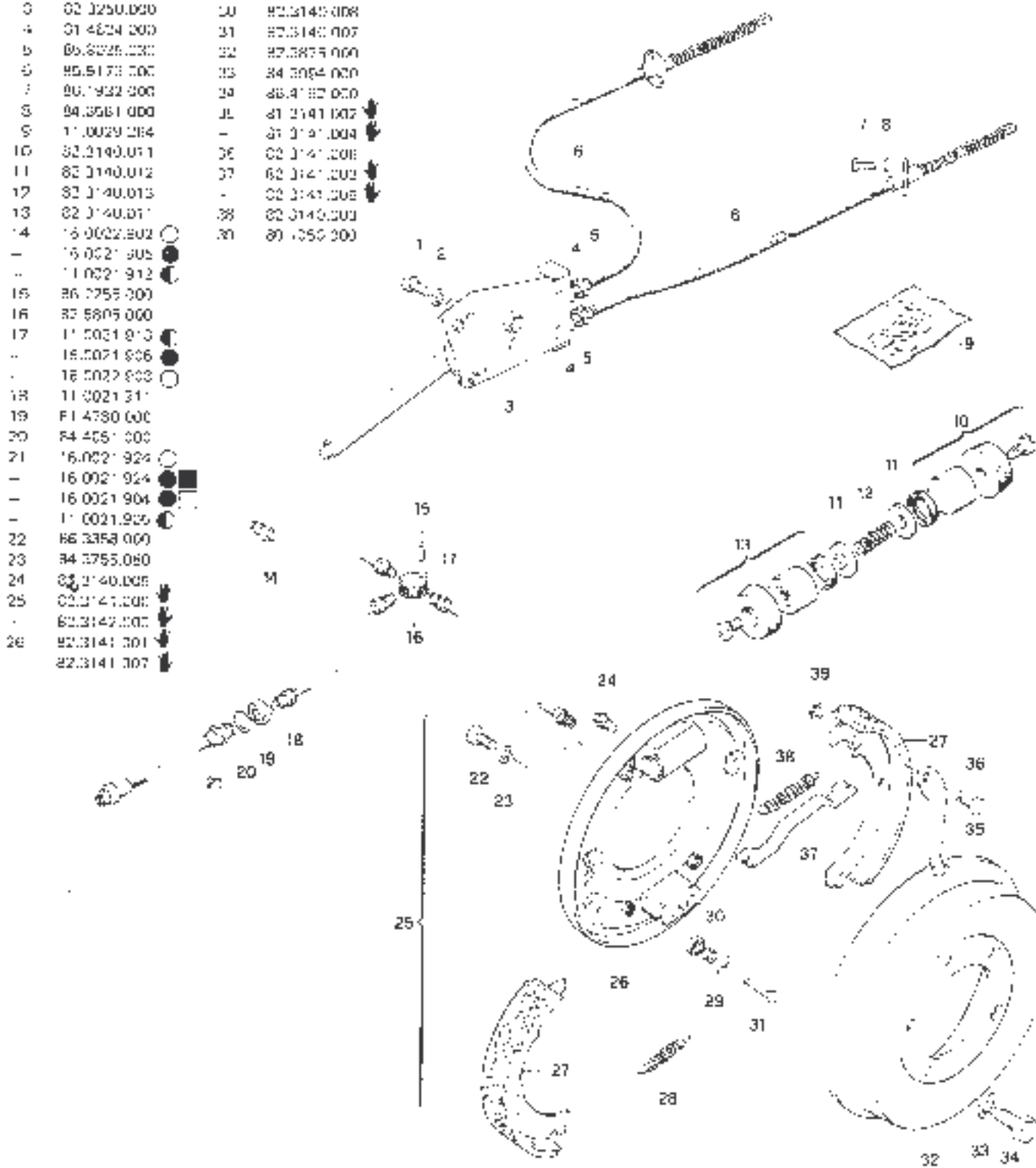


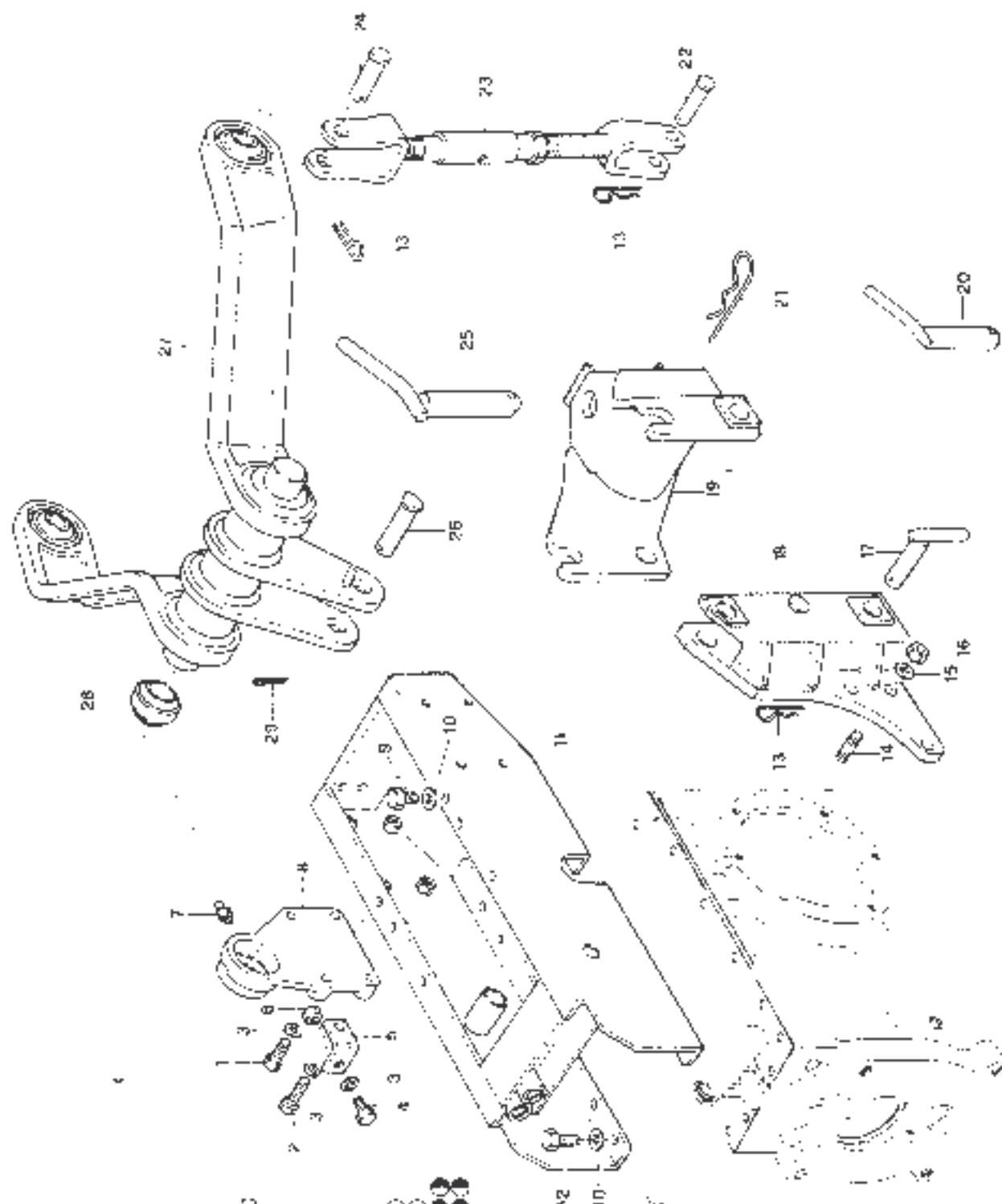
INTELLIGENTE
 LEGGERE
 SEMPLICE
 AFFIDABILE
 ECONOMICO



C2107A	
C2107A	1

No. ORDIN.	No. ORDIN.
1 86.2155.000	27 62.3140.302
2 84.3640.060	28 62.3140.304
3 84.3661.000	29 62.3140.306
4 62.3250.020	30 62.3140.308
5 61.4624.000	31 62.3140.307
6 86.3026.000	32 62.3875.000
7 85.9173.000	33 84.3054.000
8 86.1932.000	34 86.4182.000
9 84.3561.000	35 81.3141.002
10 11.0029.204	36 81.3141.004
11 62.3140.011	37 62.3141.202
12 62.3140.012	38 62.3141.205
13 62.3140.013	39 62.3140.301
14 62.3140.017	40 62.3141.307
15 16.0022.902	
16 16.0021.902	
17 11.0021.912	
18 86.3755.000	
19 82.5805.000	
20 11.0021.913	
21 16.0021.906	
22 16.0022.903	
23 11.0021.911	
24 11.4730.000	
25 84.4051.000	
26 16.0021.924	
27 16.0021.924	
28 16.0021.904	
29 11.0021.925	
30 86.3358.000	
31 84.3755.080	
32 62.3140.005	
33 62.3141.000	
34 62.3142.000	
35 62.3141.301	
36 62.3141.307	





1	86.20150 0100	11	80.0031 204 35
2	86.23197 0101	12	15.0031 205 50
3	84.3843 154	13	16.0020 205 19
4	85.3254 300	14	15.0023 208 50
5	11.0032 429	15	15.0020 202
6	81.4044 300	16	80.6240 202 *
7	82.0038 300	17	85.1487 300
8	16.0031 210 13	18	81.5673 300
9	88.0253 300	19	15.0031 232
10	84.1196 300	20	81.5189 306
11	18.0031 200	21	80.6080 300
12	85.3205 300	22	15.0031 209
13	85.1488 300	23	15.0031 244
14	83.8189 301	24	81.1970 300
15	84.3821 020	25	81.0625 810
16	81.4752 010	26	
17	80.8131 015	27	
18	15.0031 204 35	28	
19	15.0031 205 50	29	
20	16.0020 205 19	30	
21	15.0023 208 50	31	
22	15.0020 202	32	
23	80.6240 202 *	33	
24	85.1487 300	34	
25	81.5673 300	35	
26	15.0031 232	36	
27	81.5189 306	37	
28	80.6080 300	38	
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32	81.0625 810	42	

T.P.S. 4108

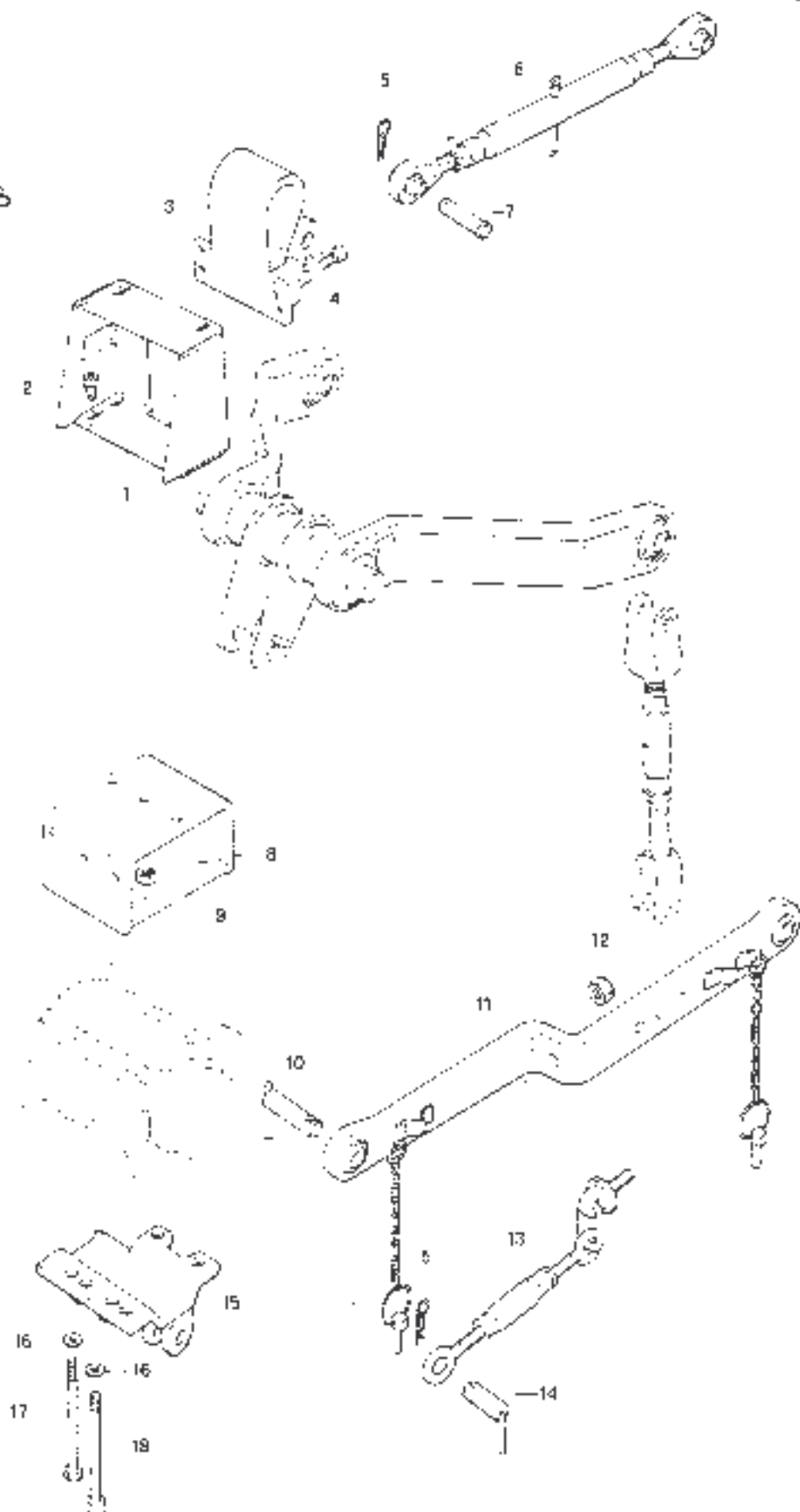
Separation drive kit

* A RICHIESTA

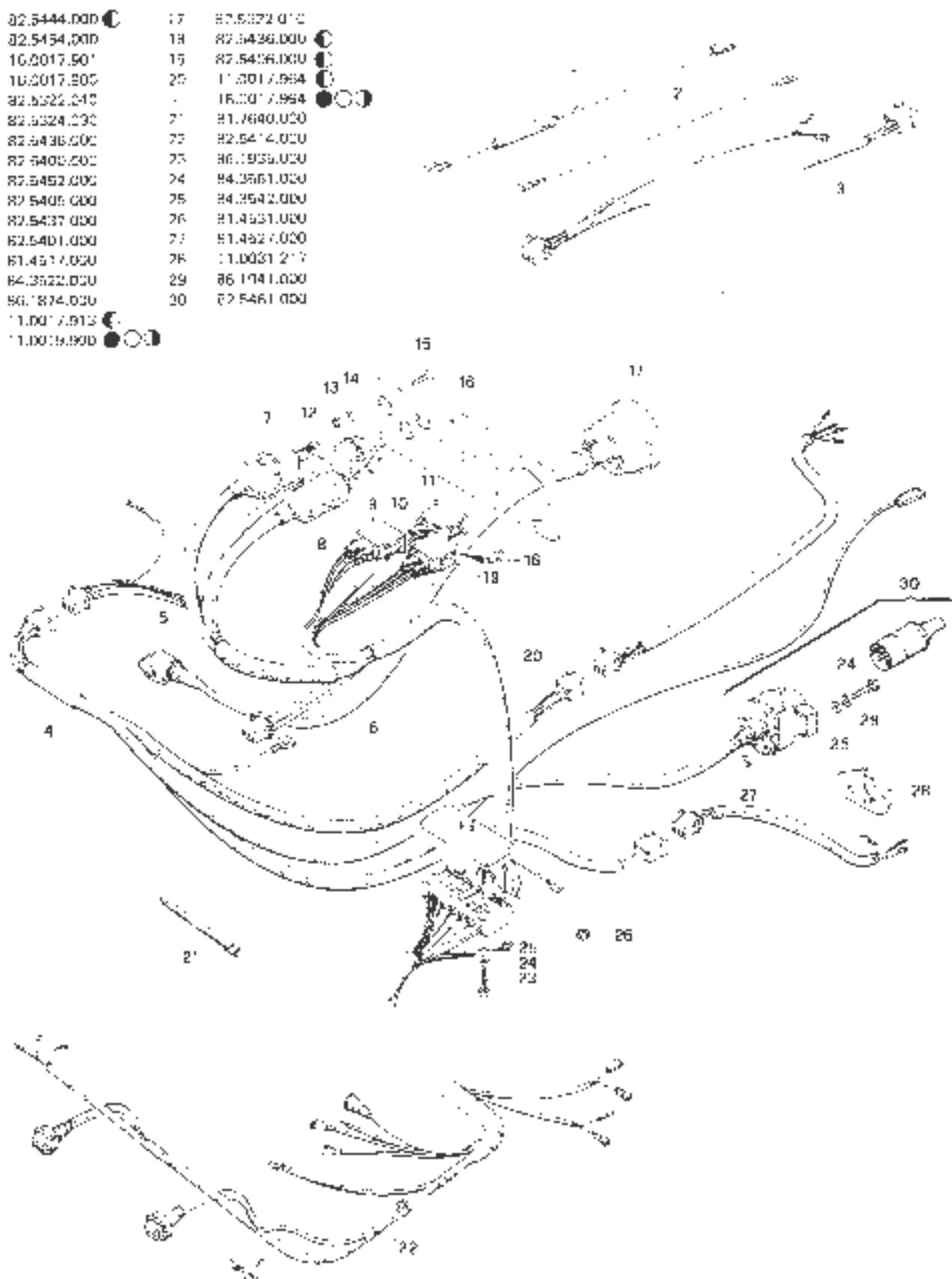
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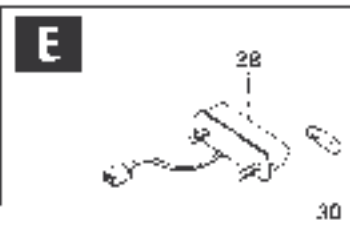
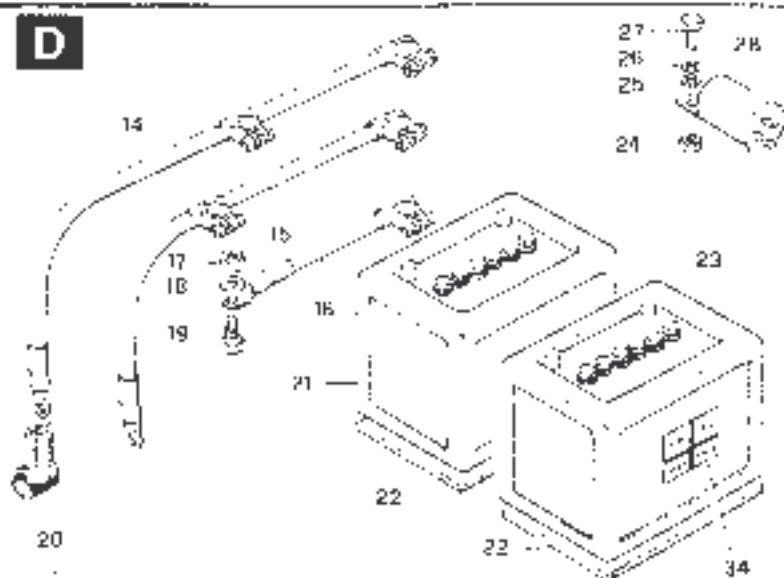
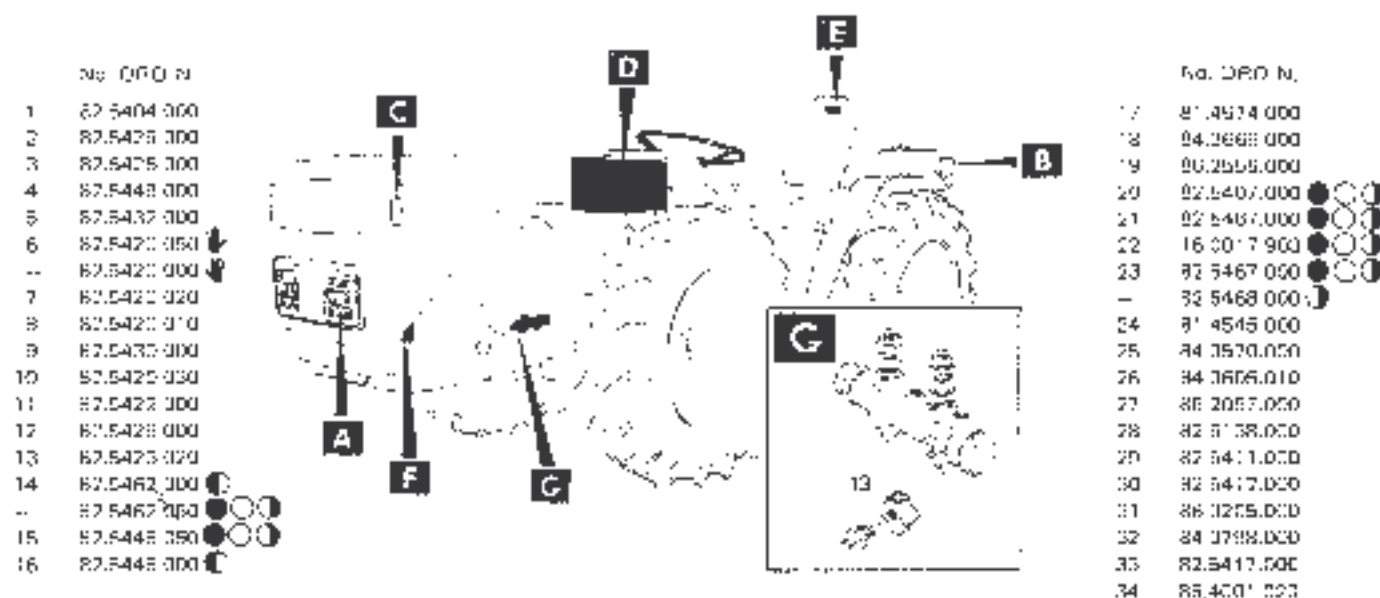
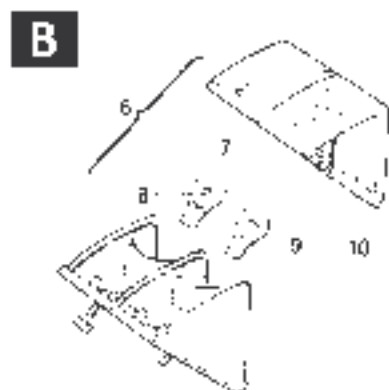
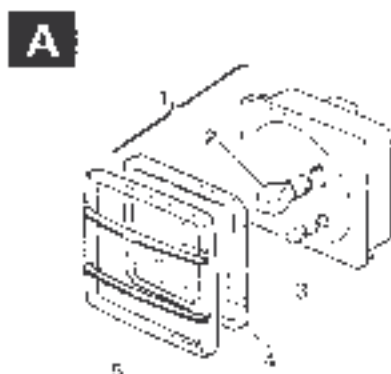
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- 2 85.0300.000
- 3 16.0031.255
- 4 88.0700.000
- 5 85.146E.000
- 6 11.0028.211 - 160048 483
- 7 80.5709.000
- 8 10.0031.241 DS ○
- 9 10.0031.242 SH ○
- 10 16.0028.210 DS ●●
- 11 16.0028.211 SN ●●
- 12 31.4704.000 ○
- 13 80.3035.095
- 14 16.0031.225 DS ○
- 15 16.0031.221 SN ○
- 16 16.0028.212 ●●
- 17 61.4830.000
- 18 11.0031.253
- 19 80.3035.075
- 20 16.0028.210 DS ●●
- 21 16.0028.211 SN ●●
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- 24 84.3543.060
- 25 88.4172.020
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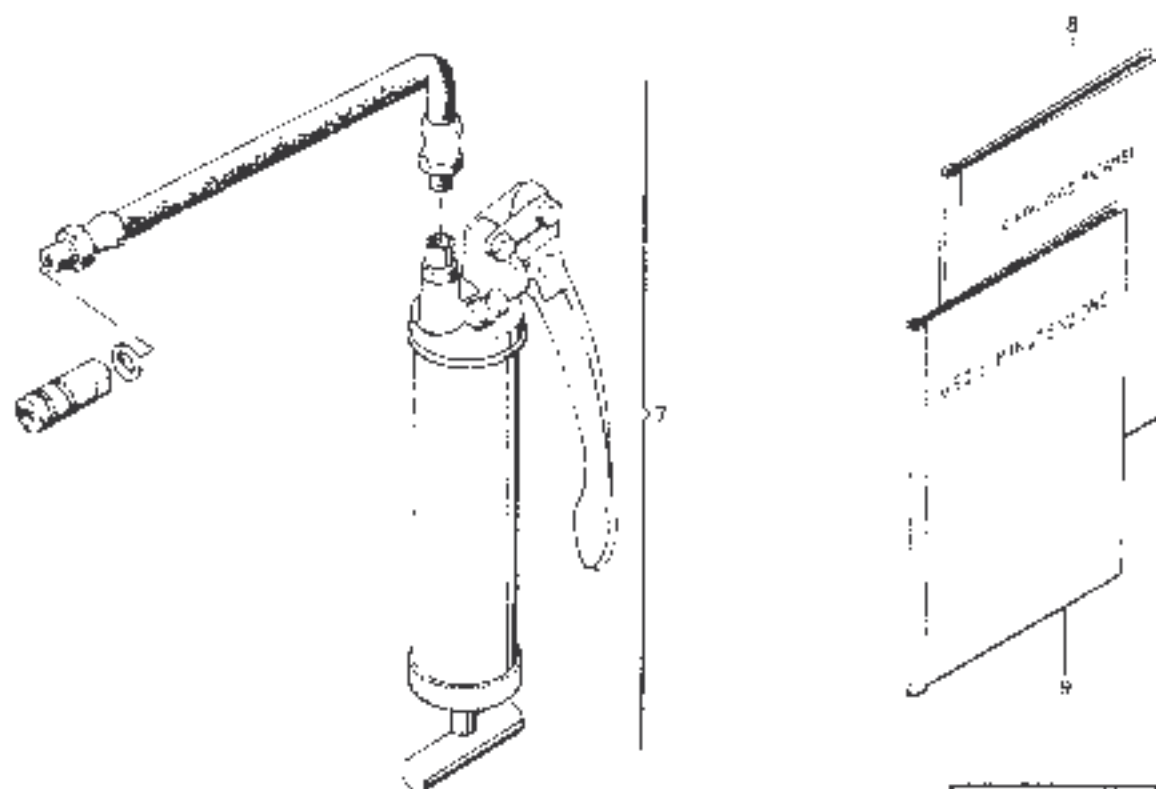
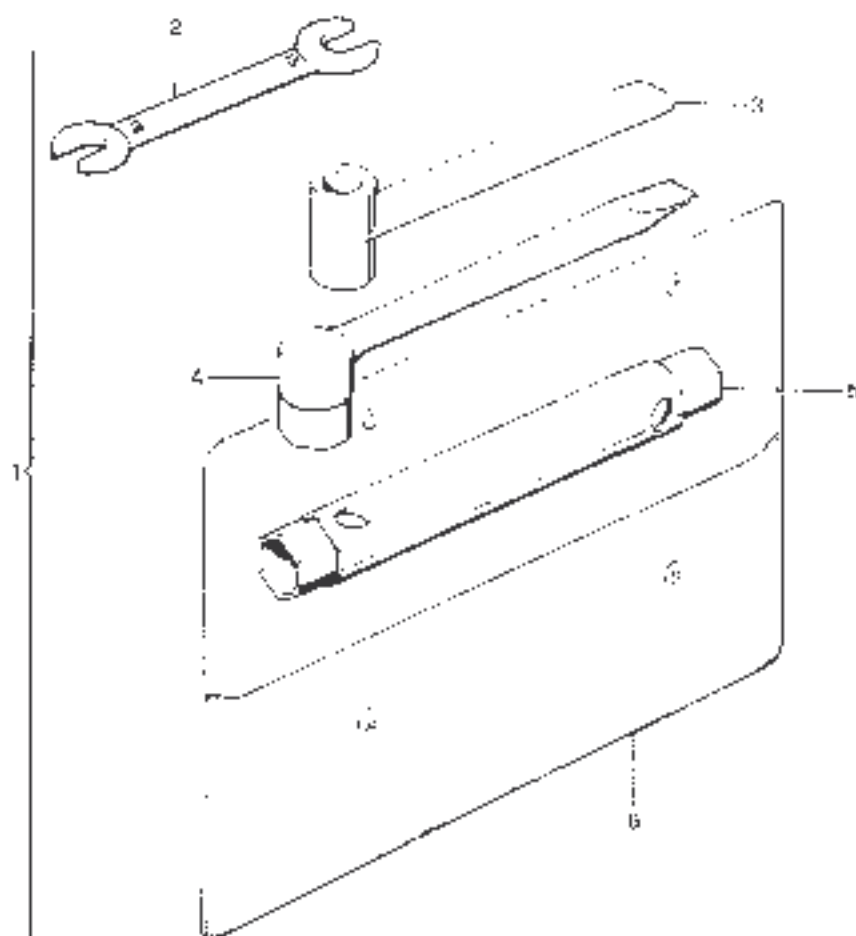


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3	10.0017.901	19	82.5436.000
4	10.0017.905	20	11.0017.964
5	82.5322.010	-	16.0017.964
6	82.5324.030	21	81.7640.020
7	82.5436.000	22	82.5414.020
8	82.5405.000	23	86.1939.020
9	82.5452.000	24	84.3561.020
10	82.5405.000	25	84.3542.020
11	82.5437.000	26	81.4931.020
12	82.5401.000	27	81.4932.020
13	81.4517.020	28	11.0031.217
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	11.0019.930		



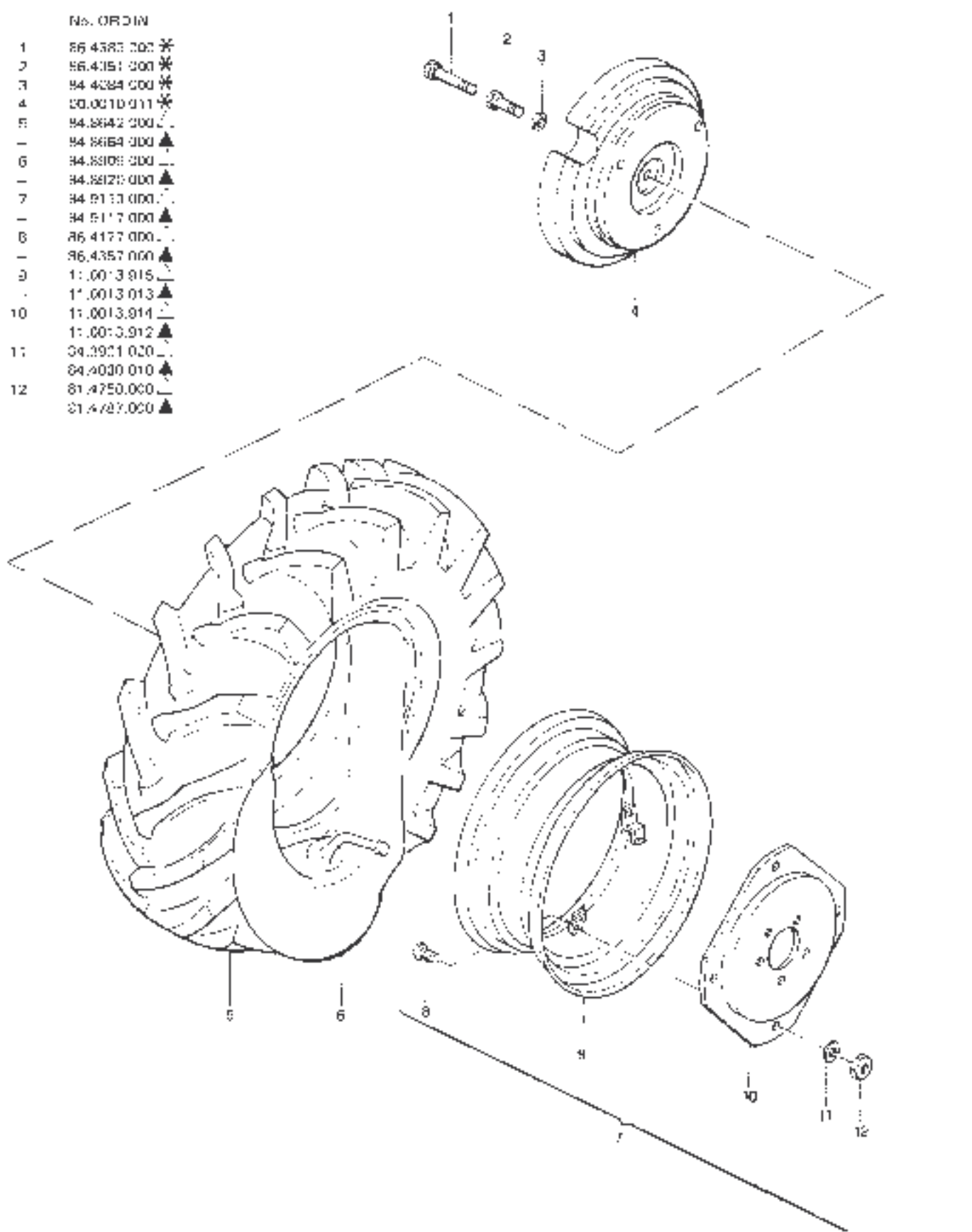






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6	11.0055.026	
7	62.6761.000	
8	16.0065.011	○*
9	16.0066.011	●*
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13	16.0066.012	◐

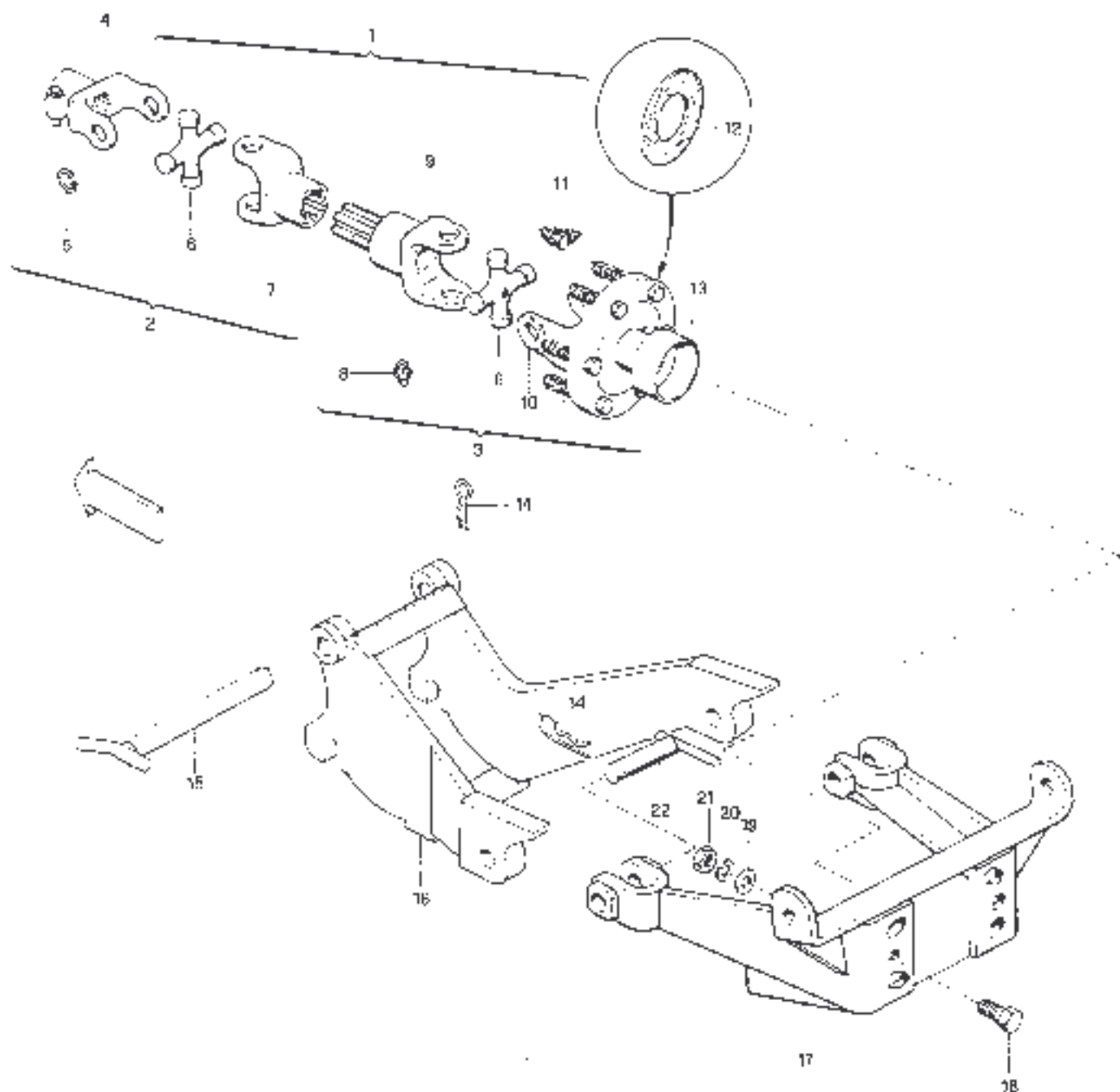


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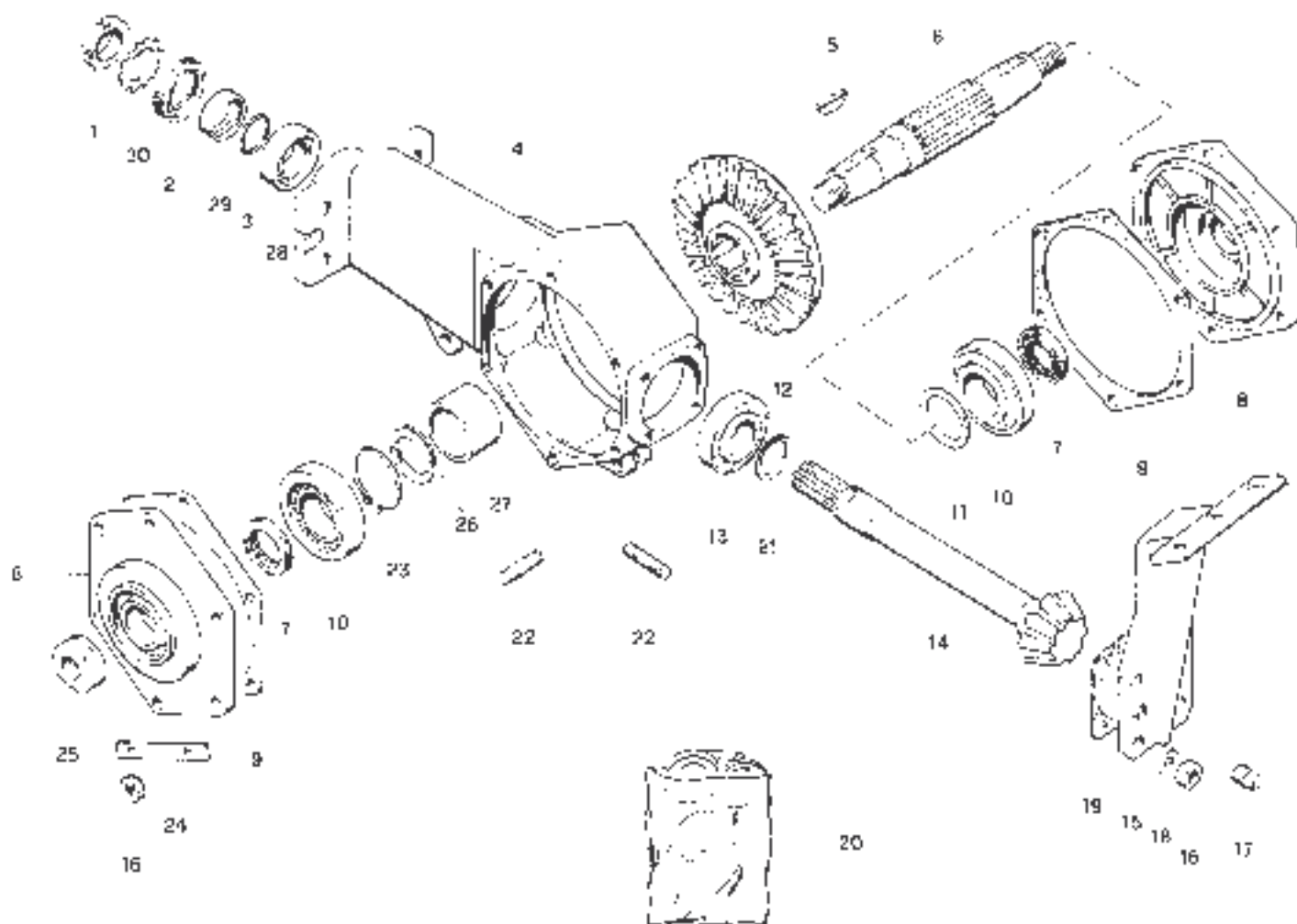
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6	84.8606.000 /
-	84.8620.000 ▲
7	84.9133.000 /
-	84.9117.000 ▲
8	86.4177.000 /
-	86.4357.000 ▲
9	11.0013.015 /
-	11.0013.013 ▲
10	11.0013.014 /
-	11.0013.012 ▲
11	24.2021.020 /
-	24.2030.010 ▲
12	81.4750.000 /
-	21.4727.000 ▲



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PART NO	9	11.0045.209	19	84.3893.000
No. ORDIN.	10	11.0045.207	20	84.3921.030
PART NO	11	82.0002.000	21	81.4767.030
No. RECEPÇÃO	12	11.0045.208	22	80.8039.080
1	11.0045.202	13	11.0045.205	
2	11.0045.212	14	85.1488.000	
3	11.0045.258	15	80.8039.000	
4	11.0045.211	16	11.0023.207 	
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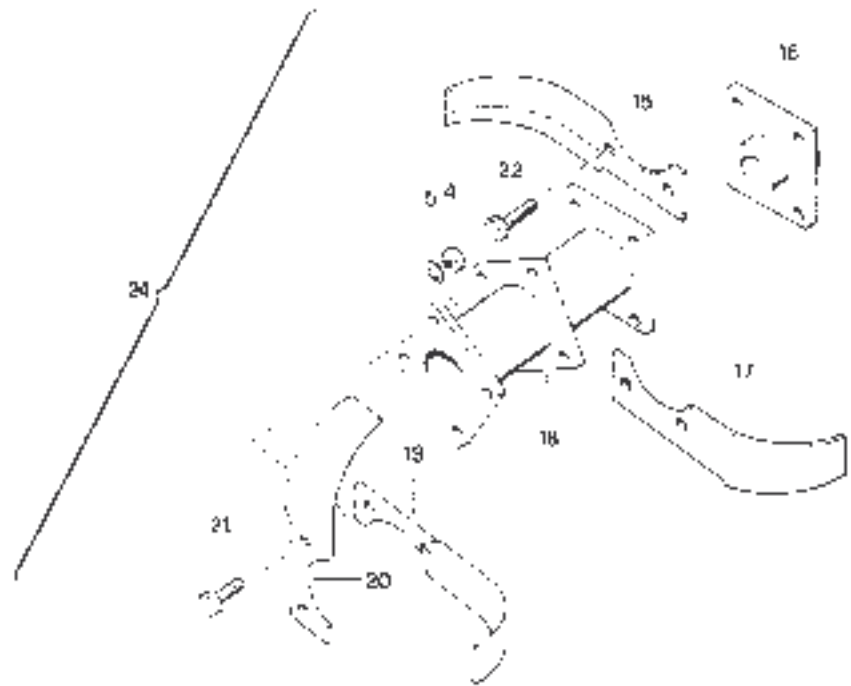
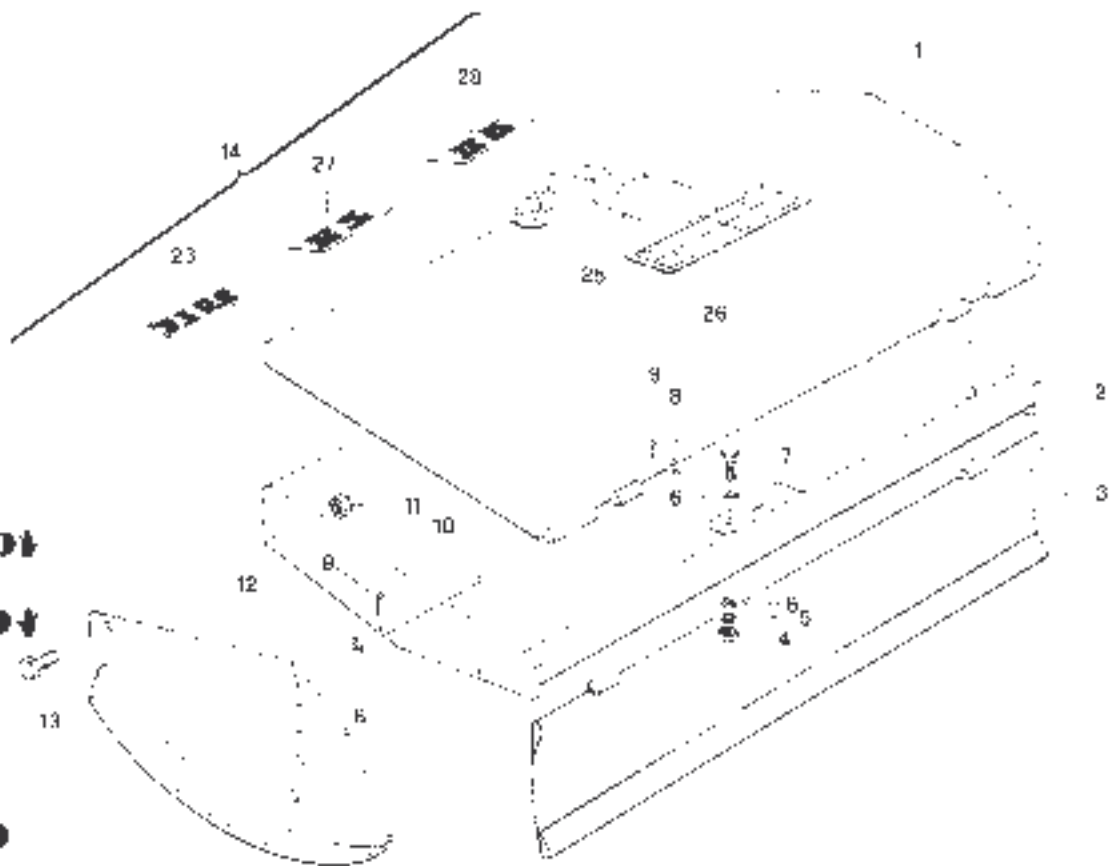


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	14	07.0040.102	29	07.0040.220
	15	07.0040.227	30	84.4482.000
1	62.1045.000	16	81.4717.050	
2	60.2198.350	17	86.2597.200	
3	80.3253.000	18	84.3643.060	
4	07.0040.010	19	07.0040.903	
5	80.6567.050	20	11.0042.900	
6	85.3040.211	21	85.3089.000 10,1 mm	
7	85.2186.000	-	85.3089.010 10,2 mm	
8	07.0040.011	-	85.3085.020 10,3 mm	
9	07.0040.904	22	82.8576.000	
10	81.7842.200	23	60.1377.050	
11	85.0104.000 10,2 mm	24	07.0040.214	
-	85.0104.010 10,3 mm	25	03.0040.201	



No. ORD. N.
 PART No.
 No. ORD. N.
 GEST. P. No.
 No. RIFERENCO

- 1 11.0043.255
- 2 11.0043.255
- 3 11.0043.257
- 4 81.4736.250
- 5 84.3843.260
- 6 84.3901.250
- 7 86.3951.200
- 8 84.4160.200
- 9 81.5617.200
- 10 11.0043.241
- 11 81.4721.200
- 12 11.0043.238
- 11.0043.237
- 13 86.3873.250
- 14 11.0043.243
- 15 11.0041.208
- 11.0043.245
- 16 11.0043.100
- 17 11.0041.207
- 11.0043.244
- 18 11.0046.700
- 19 11.0043.246
- 20 11.0043.247
- 21 86.3325.000
- 22 86.3397.010
- 23 11.0047.932
- 24 11.0346.000
- 25 05.4302.010
- 26 01.0301.485
- 27 16.0037.931
- 28 16.0033.900



F1301C	1
F1301C	2

HOW TO PLACE WATERWORKS PARTS

- 1** MACHINE TYPE
- 2** SYSTEM TYPE

UNITS AND PIPING

- 3** PUMP ACCORDING TO THE INSTALLED ENGINE (delivered as assembly)
- 4** HYDRAULIC DISTRIBUTOR (delivered as assembly)

- 5** POWER STEERING ACCORDING TO MODEL INSTALLED (delivered assembly)
- 6** CONNECTING LINES

PARTS OF A UNIT

- 7** REFER TO THE SUITABLE FIGURE
- 8** VALIDITY NOTES (encl. to be considered as stated in the spare Parts Catalogue)



FABBRICAZIONE S.p.A. TEL. 0529-85591-85592

IMPIANTO IDRAULICO - IDROSTEERATO E DISTRIBUTORE A POSIZIONE REGOLATA

HYDRAULIC EQUIPMENT - HYDRO STEERING AND LIFTED POSITIONING WITH AUTOMATIC POSITION CONTROL

EQUIPEMENT HYDRAULIQUE - DIRECTION HYDRAULIQUE ET DISTRIBUTEUR AVEC REGIAGE AUTOMATIQUE DE LA POSITION DE LA MACH. QUE DE L'EFFORT DE TRAVAIL. AMPLI. HYDRAULIQUE - L'HYDRO STEERING AND LIFTED POSITIONING WITH AUTOMATIC POSITION CONTROL

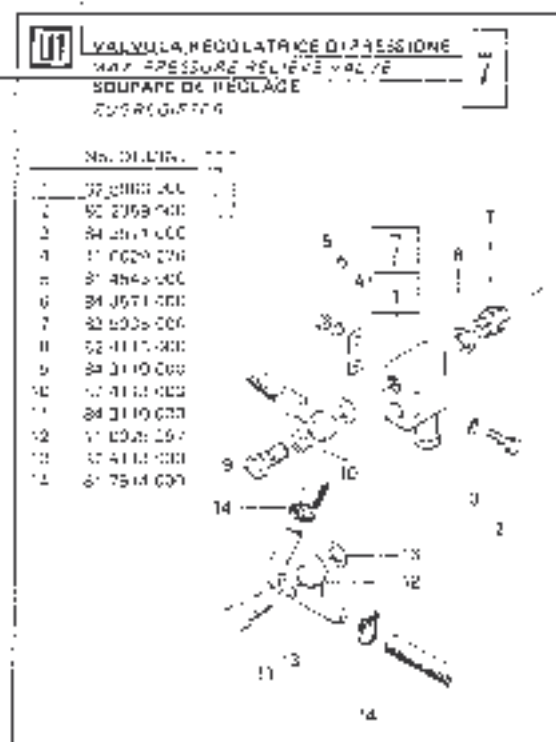
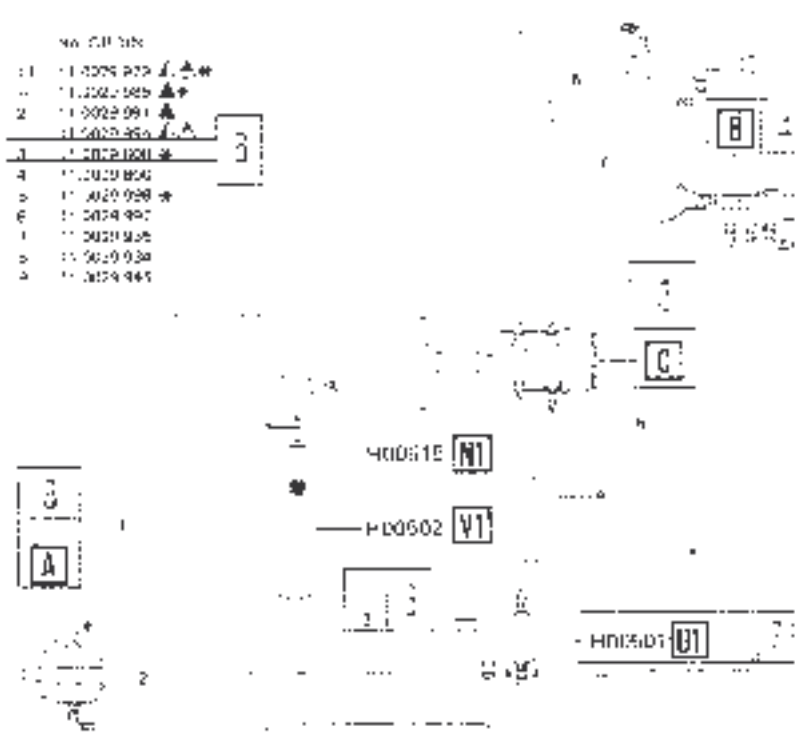
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75

14-0777

CONSTRUTTORE MANUFACTURER CONSTRUCTEUR	TIPO TYPE	NO. ORDINAZIONE PART No. No. DE COMMANDE BESTELL-NUMMER	F. SIRA F. DETTAGLIO FIGURE 3 INDEX No. FIGURE & DETAIL BILD UND EINZELEIET	MOTORE MACHINE MOTEUR MOTOR
A	HD00000A	AM 00000	HD00000 000	LD0000 RD0000
	HD00000A	AM 00000	HD00000 000	LD0000 RD0000
B	TRAV	HD00000	HD00000 000	
	TRAV	HD00000	HD00000 000	
C	TRAV	HD00000	HD00000 000	
	TRAV	HD00000	HD00000 000	

- 1 11 0000 000
- 2 11 0000 000
- 3 11 0000 000
- 4 11 0000 000
- 5 11 0000 000
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- 14 11 0000 000



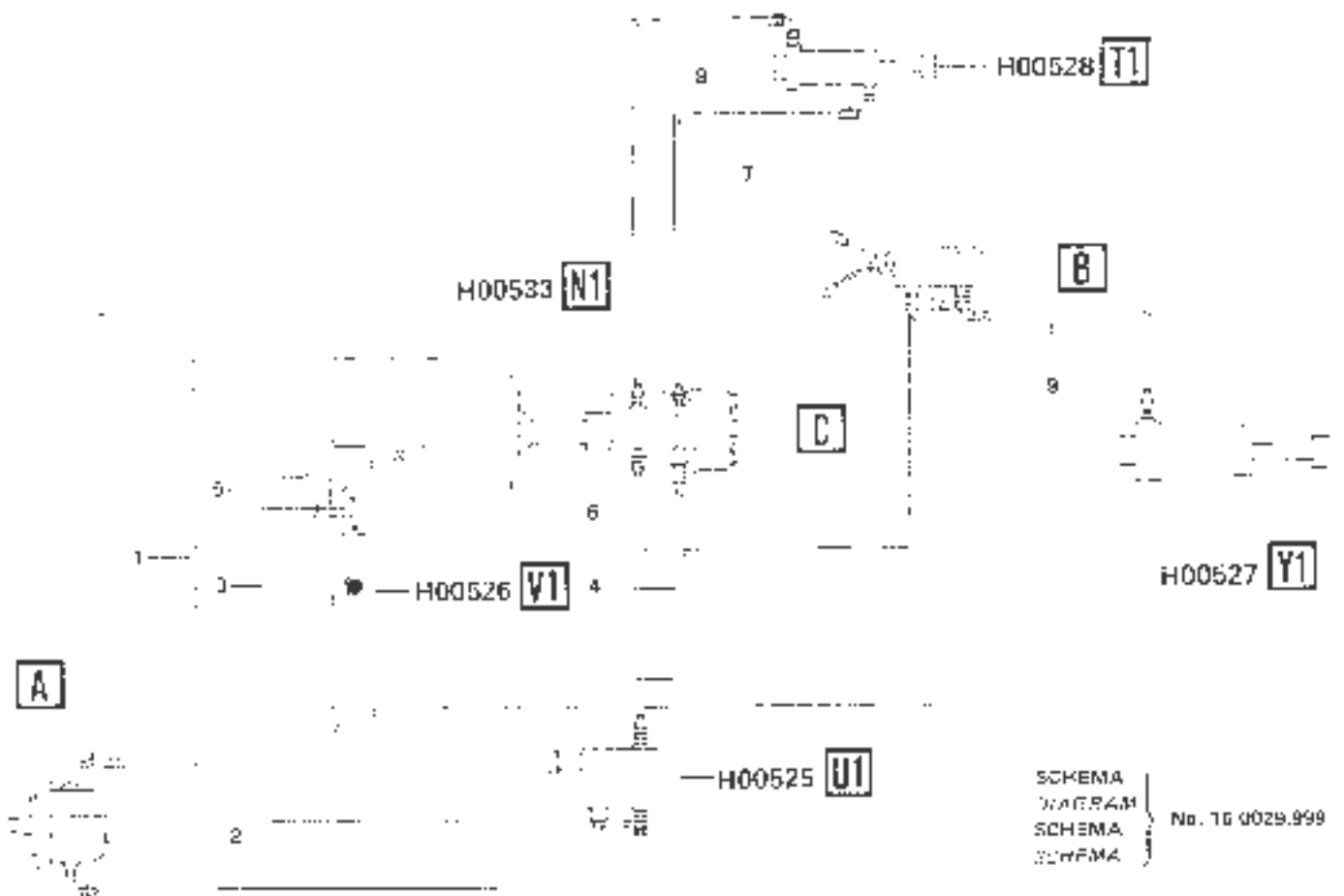
14-0777
LD0000
RD0000

NUMERO DI LUNGHERZA
LONGUEUR DE LA LONGUEUR
MANÈGE DE LA LONGUEUR

7
HD0001

- No. ORDINA.
- 1 11.0077.921*
- 1 11.0029.913*
- 1 11.0029.988*▲
- 1 11.0021.921*▲
- 2 11.0021.926
- 1 11.0029.906▲
- 1 15.0079.909▲
- 1 11.0077.920▲
- 2 11.0079.985*
- 4 11.0057.074
- 5 16.0059.001*
- 6 11.0027.073
- 7 11.0029.039
- 8 11.0070.034
- 9 16.0071.005

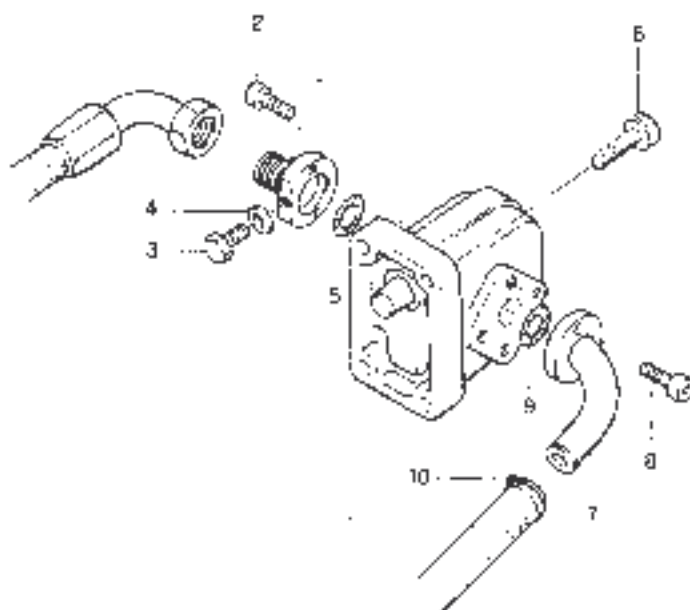
	COSTRUTTORE MANUFACTURER CONSTRUCTEUR KONSTRUKTEUR	TIPO TYPE TYPE TYPE	No. ORDINAZIONE PART No. No. DE COMMANDE BESTELLENOMMER	FIGURA E DETTAGI (O) FIGURE & INDEX (O) FIGURE & DETAIL BILD UND ANZEICHNUNG	MOTORE MOTOR MOTOR MOTOR
A	HIDROIDRAK	AM 2.74.75	83.8509.020	H-00528 (Z)	LD4 873 LDA 832
B	DAFOS		87.5051.020	H-00531 (H1)	
C	IWA	HGA 107	63.516E 000	HM0530 (S1)	



Z1 POMPA CON ALBERO CONICO
 CONICAL SHAFT PUMP
 POMPE A ARBRE CONIQUE
 KONISCHWELLE PUMPE

No. ORDINE

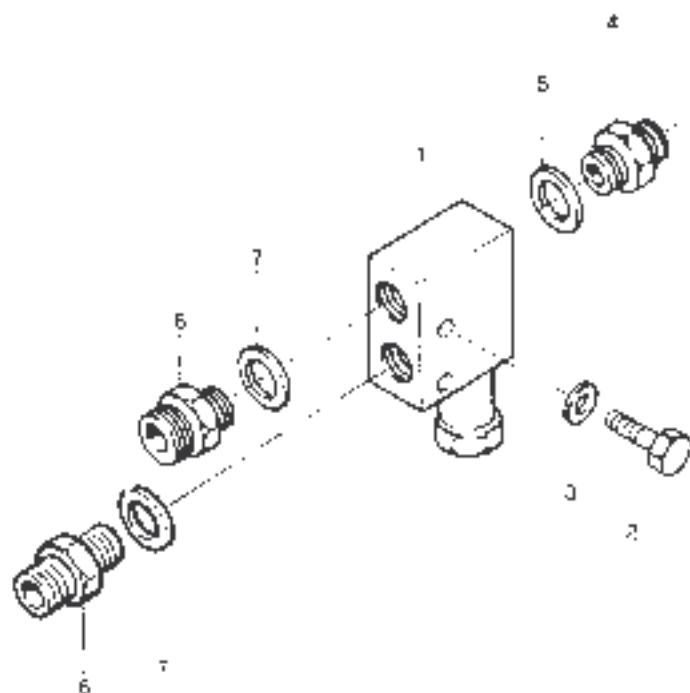
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4	82.4022.000
5	80.3185.000
6	86.2270.000
7	1.0027.217
8	86.2108.000
9	80.3185.000
10	81.7514.000



U1 VALVOLA REGOLATRICE DI PRESSIONE
 MAX. PRESSURE RELIEF VALVE
 SOUPEPE DE REGLAGE
 ZUGREGISTER

No. ORDINE

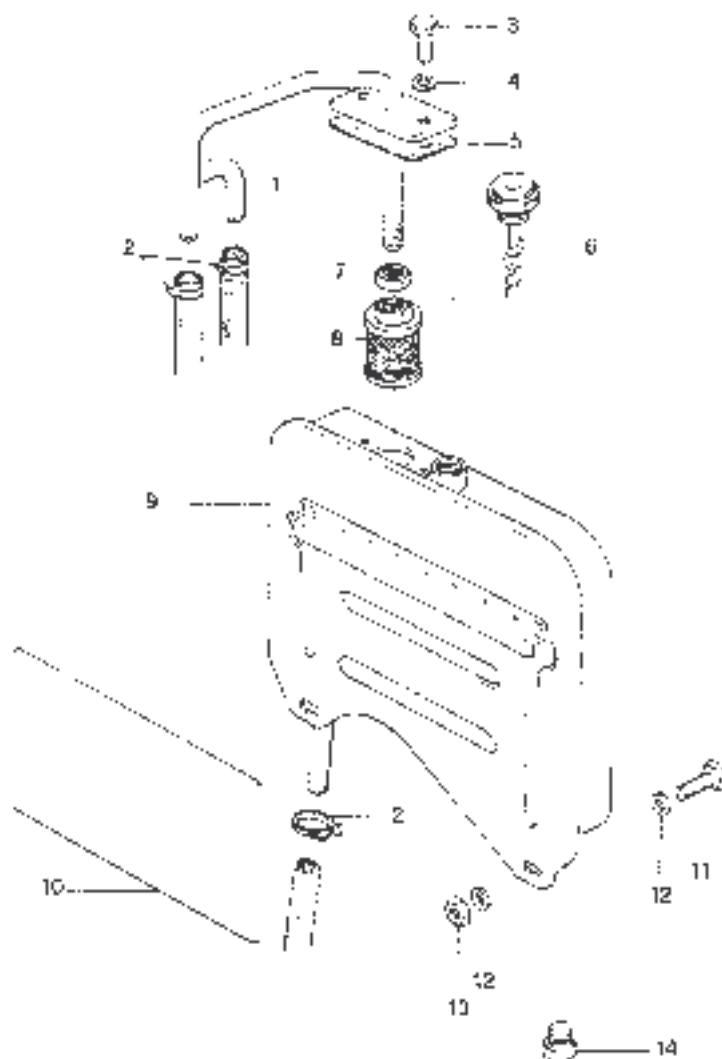
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V1

NO. OF Pcs

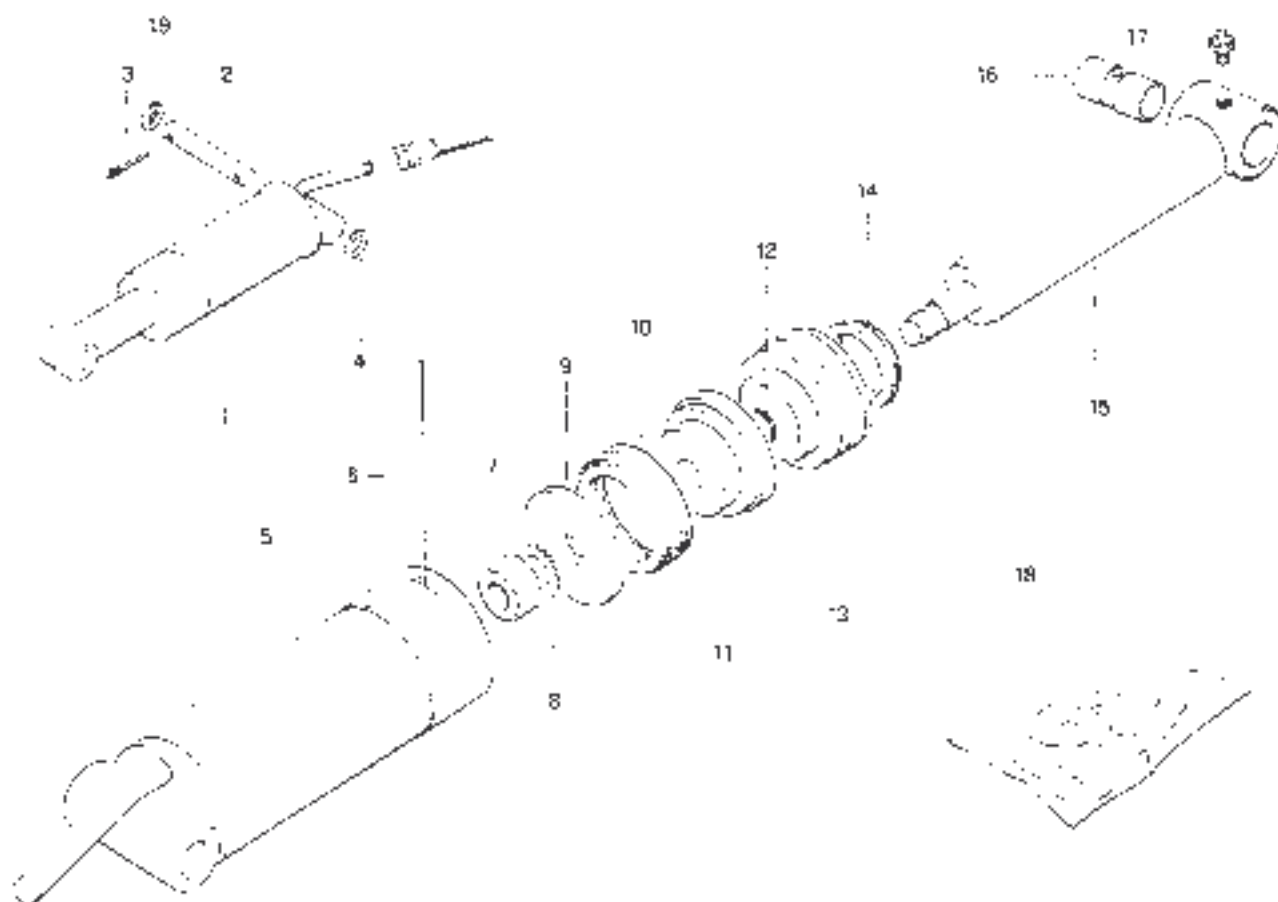
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8	52.6960.030
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Y1

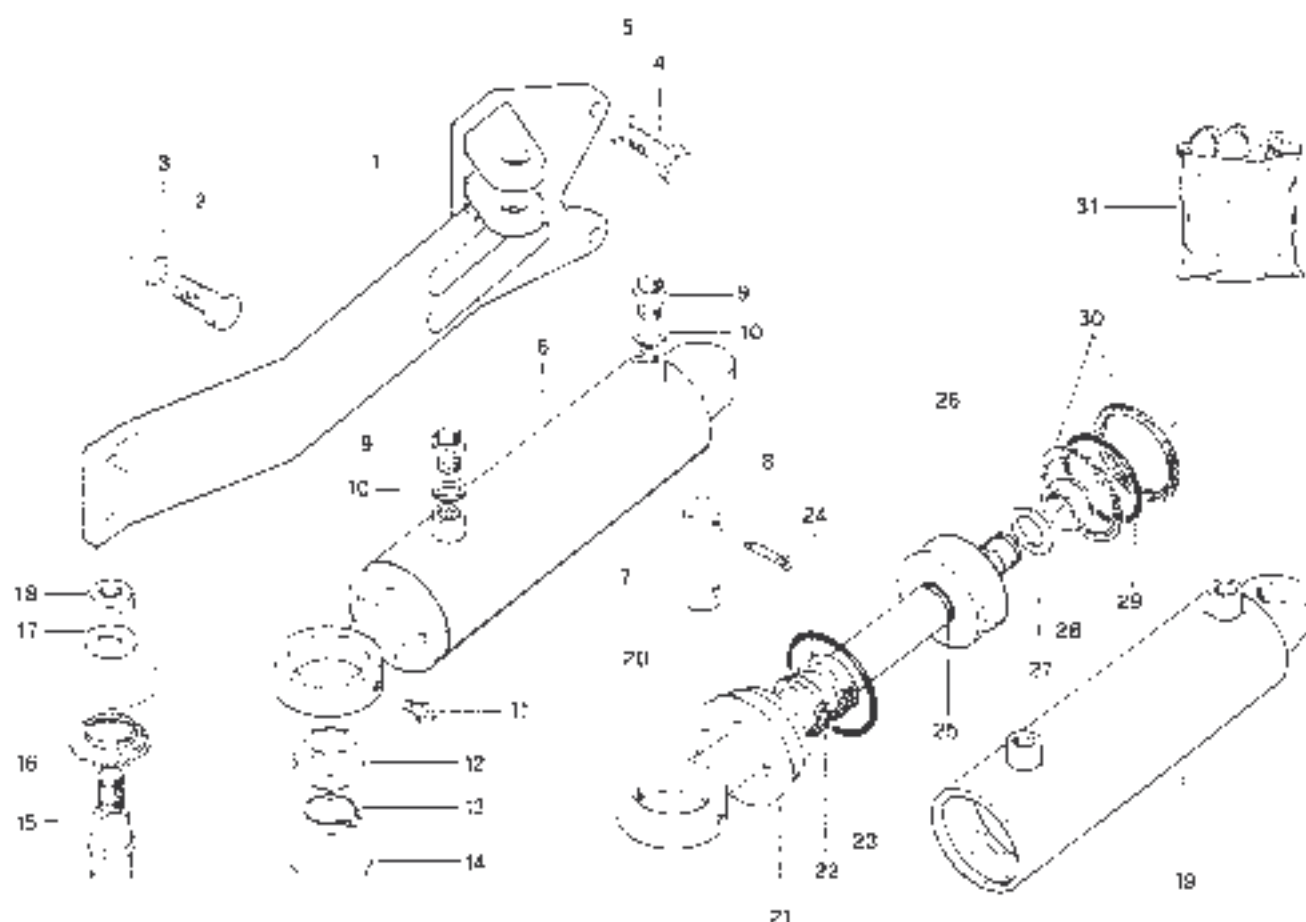
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9	80.9325.000
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11	80.9303.000
12	90.3198.000
13	80.9324.000
14	80.2178.000
15	90.9326.000
16	80.4250.000
17	82.6038.000
18	11.0029.285 4100
19	84.4271.000





No. OROLOG.	No. CHIAM.
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4	85.0425.000
5	84.3735.050
6	80.9318.000
7	83.8775.050
8	81.0525.000
9	83.5006.000
10	84.2907.000
11	82.8010.000
12	81.1950.000
13	80.1180.000
14	85.7750.000
15	11.0070.226
16	81.1955.000
17	94.1992.050
18	81.4155.050
19	85.9771.000
20	80.8274.000
21	82.9318.010
22	82.2080.010
23	82.3280.000
24	81.7040.075
25	83.3056.000
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27	84.4005.000
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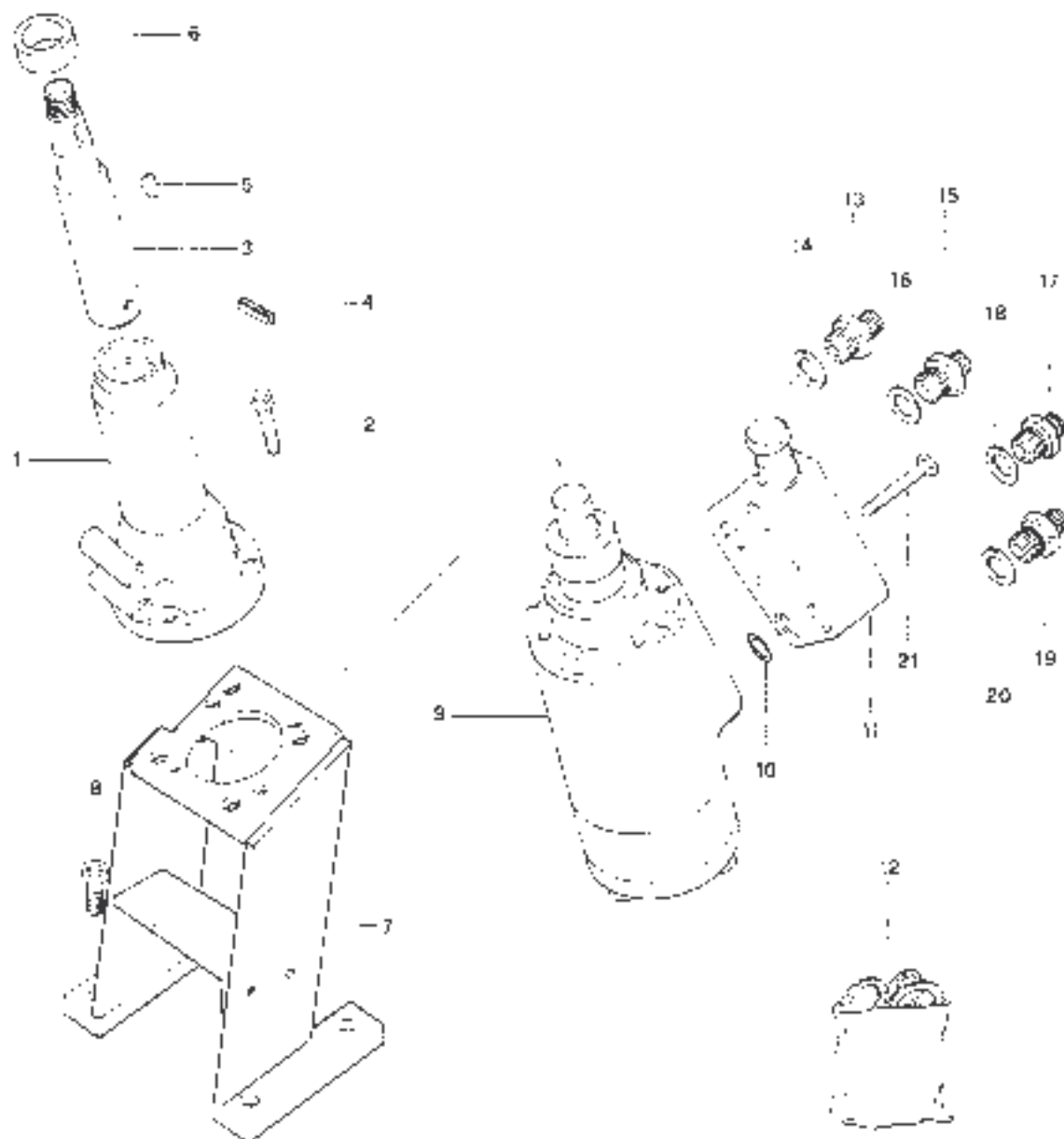


Alb. STERZO DANFOSS
 797064102

SI

NO. ORDIN.

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6	80.4323.052
7	15.3029.201
8	88.3069.000
9	88.5469.000
10	80.3193.020
11	92.5710.000
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13	30.5040.200
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17	83.5037.000
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19	83.5040.000
20	82.4141.000
21	86.2019.000



DISTRIBUTORE A POSIZIONE F SFORZO CONTROLLATO

(dettagli Te partal)

DISTRIBUTOR PROVIDED WITH AUTOMATIC DEPTH CONTROL

(det. 16a parte)

DISTRIBUTEUR AVEC REGLAGE AUTOMATIQUE DE LA

PROFONDEUR AINSI QUE DE L'EFFORT DE TRAVAIL

(det. 16a partie)

VERTEILER MIT AUTOMATISCHER EINSTELLUNG DER

ARBEITSTIEFE UND KRAFT (einzelheiten 1 Teil)

FERRARI

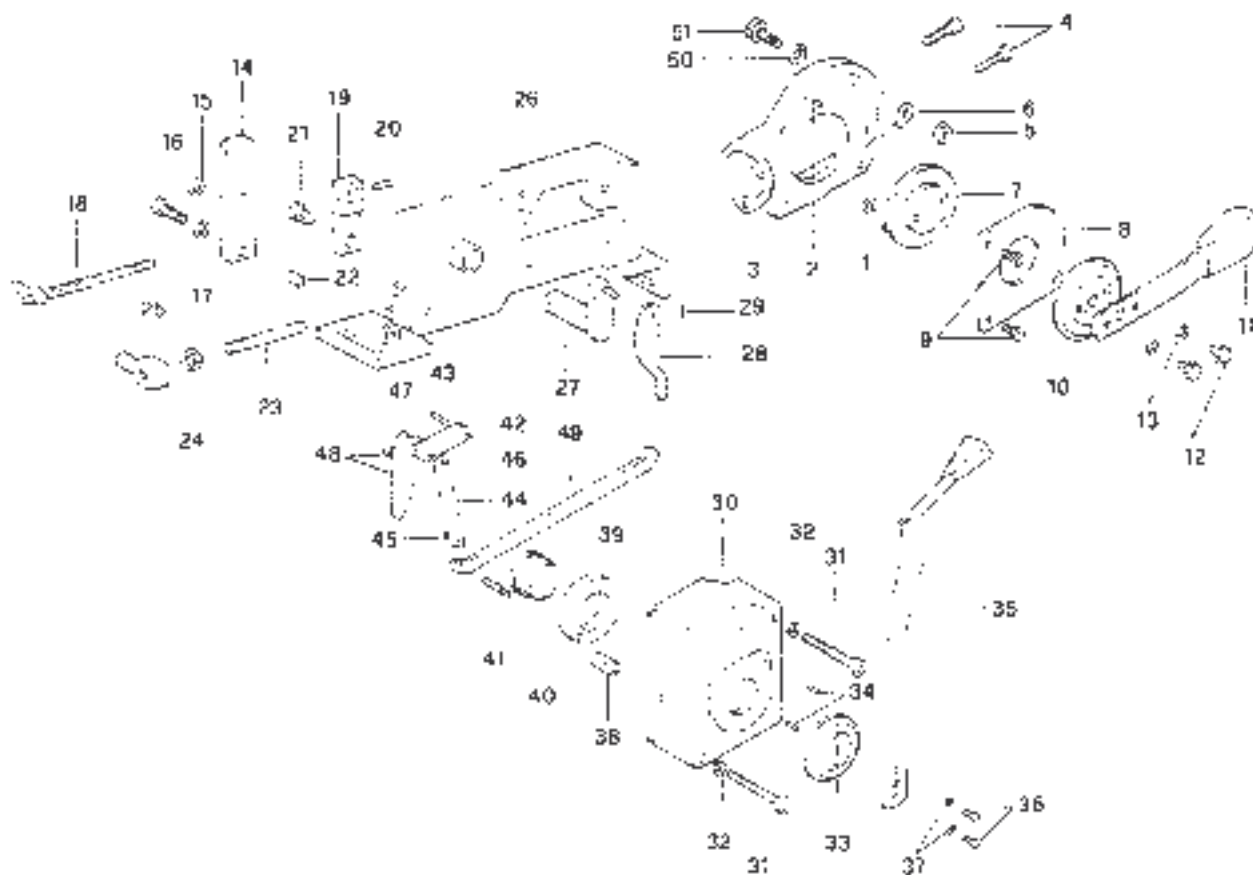
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12945 LU 224 R4 (FE) TEL. 06/277 833224-45 LINEE 1

1a-1077

R1

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2 85.1165.000	15 80.1072.000	28 82.5984.003	41 82.5984.047
3 82.5981.006	16 86.2621.000	29 81.0502.000	42 82.5984.054
4 80.2314.000	17 84.3664.000	30 82.5984.044	43 85.1179.050
5 81.4570.010	18 82.5991.005	31 86.2063.000	44 82.5984.050
6 82.5984.042	19 82.5951.054	32 84.3643.050	45 82.5984.051
7 82.5984.038	20 85.1130.000	33 82.5984.040	46 85.1179.050
8 82.5984.039	21 82.5991.003	34 85.1166.000	47 82.5984.052
9 86.1872.000	22 82.5991.002	35 82.5951.000	48 82.5984.053
10 82.5984.040	23 82.5991.006	36 86.2097.000	49 82.5984.046
11 82.5984.041	24 81.4570.010	37 84.3575.000	50 84.3664.000
12 86.1891.000	25 82.5984.001	38 82.5984.055	51 86.2563.000
13 84.3675.000	26 82.5991.007	39 82.5984.045	



FERRARI

4224 1222494 (FR) TEL. 0522-825974 (7 LINEE)

DISTRIBUTORE A POSIZIONE E SFORZO CONTROLLATO
(Jactrol) 2a parte
DISTRIBUTOR PROVIDED WITH AUTOMATIC DEPTH CONTROL
(Jactrol) 2nd part.

DISTRIBUTEUR AVEC REGLAGE AUTOMATIQUE DE LA
PROFONDEUR AINSI QUE DE L'EFFORT DE TRAVAIL
(Jactrol) (2ème partie)

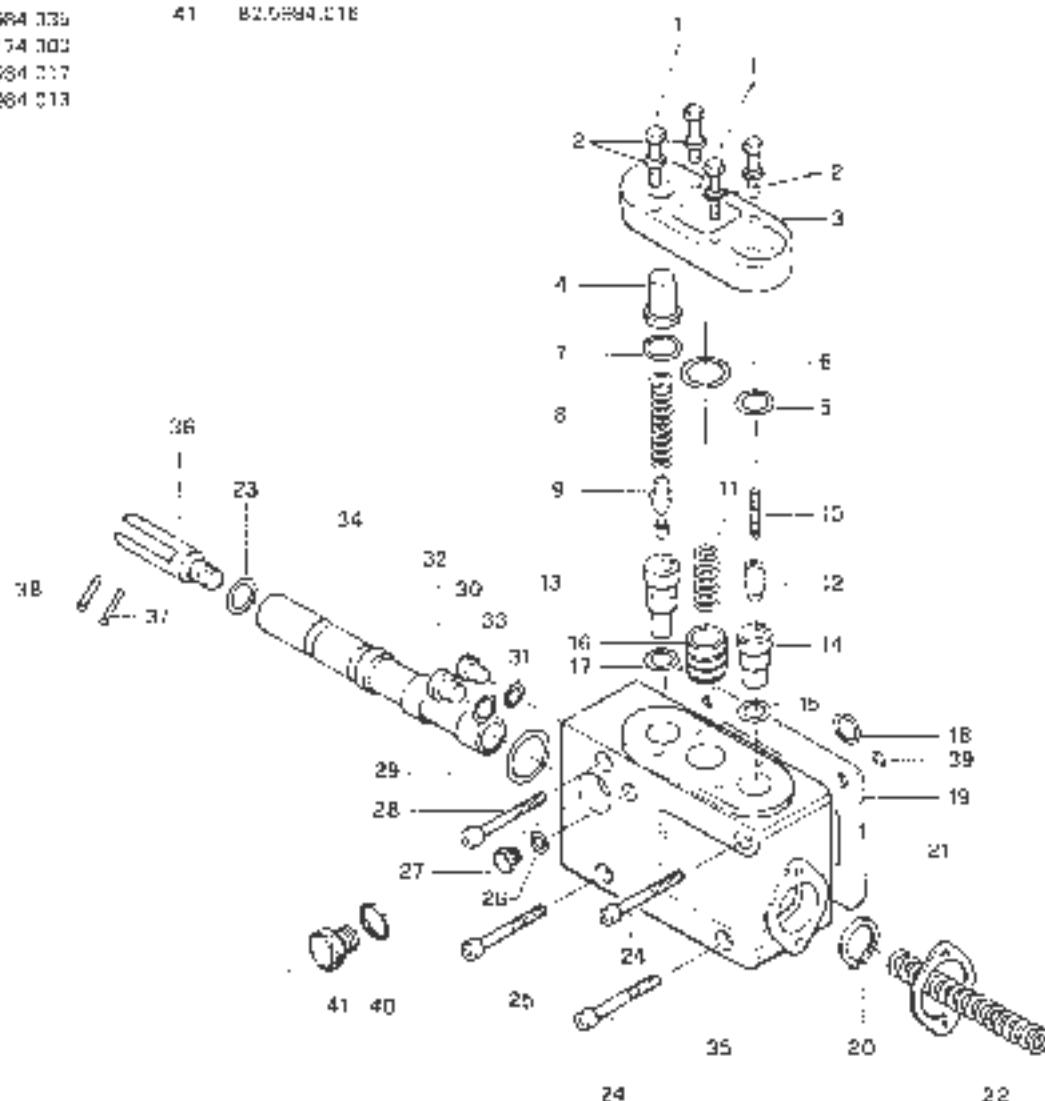
VERTIKALER MIT AUTOMATISCHER EINSTELLUNG DER
ARBEITSTIEFE UND KRAFT (zweites Teil)

85-86-86 RS

1x-1077

R1

NO. ORDIN.	NO. ORDIN.
1 86 2759 000	23 82 5984 032
2 84 3571 000	24 86 2110 000
3 82 5984 030	25 86 73 10 000
4 82 5984 024	26 87 5984 014
5 90 2195 000	27 82 5984 060
6 90 2206 000	28 86 2910 000
7 90 2195 000	29 80 1204 000
8 87 5984 023	30 82 5984 033
9 87 5984 022	31 82 5984 031
10 82 5984 029	32 82 5984 031
11 82 5984 020	32 82 5984 032
12 82 5364 026	34 82 5984 012 ▲
13 82 5364 021	35 82 5984 011 ▲
14 82 5364 027	36 82 5984 019
15 82 5364 020	37 82 5984 019
16 82 5984 025	38 85 1322 000
17 82 5364 023	39 80 31 75 000
18 80 3185 000	40 82 5984 015
19 82 5984 035	41 82 5984 016
20 80 1174 000	
21 82 5984 017	
22 82 5984 013	



7.7.15 4 540

Per informazioni
consultare
il proprio rivenditore
autorizzato.

▲ FORNIRE SOLO ACCOPPIATI
▲ DELIVERED ONLY MATCHED

▲ FOURNIS SEULEMENT COUPLÉS
▲ LIEFERN NUR PAAREN

H00532

8

FERRARI

VOLANTE DI GUIDA E MANETTA COMANDO ACCELERATORE
STEERING-WHEEL AND ACCELERATOR CONTROL LEVER
VOLANT ET MANETTE DE COMMANDE ACCELERATEUR
LENKRAD UND STEUERKNÜBEL F. FESTSTELLVERMÖG.

85-86-86 RS

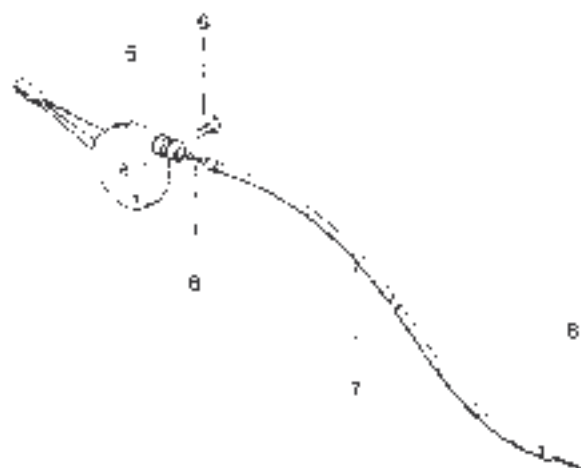
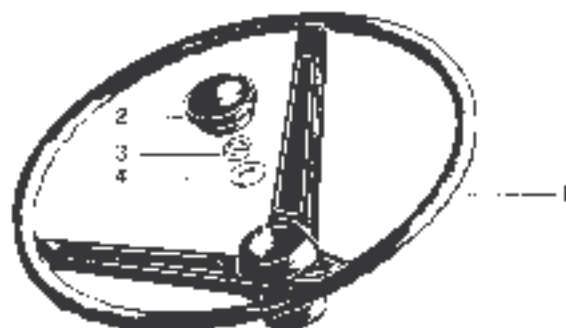
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| 1 | 86 5030.010 | } 86.5030.020 |
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| 6 | 86 2095.050 | |
| 7 | 85 7004.000 | |
| 8 | 01 8146.050 | |



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